FM 21-7

WAR DEPARTMENT FIELD MANUAL

LIST OF WAR DEPARTMENT FILMS, FILM STRIPS, AND RECOGNITION FILM SLIDES

WAR DEPARTMENT • JANUARY 1945

This manual supersedes FM 21-7, 1 *January* 1944, *including C* 1, 1 *March* 1944, *C* 2, 10 *April* 1944, *C* 3, 2 *May* 1944, *C* 4, 25 *May* 1944, *C* 5, 1 *June* 1944, *C* 6, 12 *August* 1944, *C* 7, 1 *September* 1944, *and C* 8, 12 *December* 1944.

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FM 21–7, List of War Department Films, Film Strips, and Recognition Film Slides, is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

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For explanation of symbols, see FM 21–6.

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This manual supersedes FM 21-7, 1 January 1944, including C 1, 1 March 1944, C 2, 10 April 1944, C 3, 2 May 1944, C 4, 25 May 1944, C 5, 1 June 1944, C 6, 12 August 1944, C 7, 1 September 1944, and C 8, 12 December 1944.

SECTION I

GENERAL

1. PURPOSE

This is one of a series of manuals covering instructional materials for military training. FM 21–5 and TM 21–250 summarize the basic principles of military training and instruction. FM 21–6 lists War Department training publications. This manual deals with all major types of visual and audio-visual aids which are exhibited by projection. FM 21–8 covers other types of training aids, such as models, charts, graphic portfolios and special training devices. The purpose of FM 21–7 is to provide a complete list of War Department films, film strips, and recognition film slides, available as of 1 December 1944, and to tell how these aids may be obtained and used effectively in military training. Army Air Forces activities are referred to in paragraph 86.

2. DEFINITIONS

a. Film. Film is used as a general term in this manual to cover all motion pictures produced for or by the War Department.

(1) Training Films deal with approved War Department doctrine and are produced for use in military training. They cover specific topics and are intended for use at a definite time and place in the training program. Nearly all training films are available in both 16-mm and 35-mm sizes.

(2) Film Bulletins deal with new military developments, not necessarily based on approved War Department doctrine, and are produced for the information of officers and enlisted men. They are available in both 16-mm and 35-mm sizes.

(3) Combat Bulletins contain selections of the latest and most significant combat scenes from all battle fronts. Presented with descriptive commentary, they are designed to give the soldier a picture of what is happening in all theaters of war from week to week.

(4) Miscellaneous Films are special productions which do not fit into any other category. This category also includes films adopted from other services for training purposes whose doctrine does not completely conform to approved War Department training doctrine.

(5) War Information Films are designed to acquaint all military personnel with the background of the present war, the history of the war to date, the current progress of the war, and information concerning our allies and enemies.

b. Film Strips. These are series of still pictures printed on strips of 35-mm film for use in conjunction with lectures, demonstrations or other training procedures. Like training films, they deal with specific topics and are intended for use at a definite time and place in the training program. Some film strips are being produced with accompanying sound recordings.

c. Recognition Film Slides. These are sets of 2- x 2-inch film slides designed for use in recognition courses—aircraft, armored vehicle, and naval vessel. The slides include silhouettes of the subject and views from various angles.

d. Film Library. A depository for projection equipment and films. The function of the library is to provide efficient loan service of equipment and films to troop units and other military personnel served by the library.

e. Distribution Division. This is a division of the Signal Corps Photographic Center, Long Island City, New York, which supplies films, film strips, slides, and certain related film literature to service commands, defense commands, and theaters of operation. This division is also charged with staff supervision of film libraries and oversea film and equipment exchanges.

3. PURPOSE OF VISUAL TRAINING AIDS

a. The purpose of films and film strips is to present military subjects in a vivid, interesting and accurate manner. They are designed as aids to teaching and learning. They supplement but do not supplant the work of instructors. By themselves films have only limited value; however, when used in accordance with sound principles of military instruction by a resourceful instructor they are invaluable.

b. On the other hand, improper use of films may endanger a training program. Soldiers can be expected to learn little from training films when they are marched into a hot classroom or recreation hall and forced to sit through the showing of a series of unrelated films for a prolonged period. This is especially true if they are given no indication of what they are to see, what they should look for or how these films are related to their present or future duties. Similarly, the materials presented in films will not be learned well unless the showing of films is followed by examinations, discussions or other appropriate applicatory exercises.

4. ADVANTAGES OF FILMS

The chief advantages of training films, film bulletins and film strips as training aids are due to a number of factors, including the following:

a. Instruction is standardized.

b. Films emphasize fundamentals.

c. Films bring demonstrations of tactical exercises or equipment to the troops, thus eliminating the time-consuming factor of moving troops to demonstration areas.

d. The same demonstration can be performed repeatedly without expending the time and labor necessary to repeat such demonstrations in the field.

e. Every man in a group can see and hear all phases of an action which otherwise could be observed satisfactorily only by those close to the scene. Greatly enlarged close-ups of minute details can be shown.

f. The most highly trained troops and expert instructors are utilized in demonstrating the methods and techniques illustrated in the film.

g. By means of animation, slow motion, time lapse, miniature and micro-photography, motion pictures show normally hidden action which cannot be shown by other instructional aids.

h. Every film follows sound principles of military training.

SECTION II

RECOMMENDED USE OF TRAINING FILMS, FILM STRIPS, AND FILM BULLETINS

5. USE OF TRAINING FILMS

The use of films in military training involves the same principles of sound teaching found so necessary and effective in the case of other materials of instruction. The following procedure, if used properly by the instructor, will increase the effectiveness of instruction with films.

a. Integrate Film in Training Program. The instructor should remember that training films will serve several purposes.

(1) They will orient the soldier—introduce him to new duties, operations or procedures.

(2) They will develop proper attitudes, build morale or stimulate interest.

(3) In many cases they will instruct the soldier in the specific details of a subject. A soldier seldom becomes proficient in a subject by merely looking at a film. Usually he learns how to do a job by actually doing the job. However, having learned how a specific procedure should be carried out from seeing a training film, the mastery of the details involved follows swiftly.

b. Preview Film to Find Out What Is in It. The instructor cannot use a training film effectively unless he has carefully previewed and studied the film in advance. No training film is perfect. The instructor should select the key points of emphasis, the items which may be omitted or touched upon lightly, and the portions which are obsolete or need explanation. He should plan in advance the necessary introductory and follow-up activities which he will use. In addition, he should determine in advance whether the showing of the film should be broken into several parts.

c. Introduce Film. Every instructor should prepare his group for observing the training film in a purposeful manner. He may do this in several ways, such as telling the soldiers what the film is about and why it is shown, its battle importance, the key points to observe, and the relation of the film to his earlier training and experience or to his

duties. Similarly, he may introduce the film by raising a series of questions, setting up problems which the film will solve, giving a demonstration, or in other ways prepare the soldiers to observe the film to greatest advantage. Such procedures are important. They make the difference between merely showing training films and using them effectively as training aids.

d. Show Film. The instructor will remain with his group during the screening of the film. Although every advanced precaution may have been taken, the instructor must be ready to make adjustments should any unforeseen difficulties occur in screening the film. It is not wise to show films for too long a period. Consequently, it may be desirable to break up the showing of a long training film into several parts. The instructor may introduce variations in order to maintain interest, such as turning off the sound at a prearranged point and giving his own oral commentary. For example, this may be done in connection with an obsolete portion of a film, or for other necessary local adaptations. However, such commentary should be in conformance with approved War Department doctrine.

e. Follow-up Activities. Carefully planned follow-up activities increase the effectiveness of training films. Such exercises emphasize and clarify the subject being taught.

(1) The contents of the film and the facilities available will determine the nature of the follow-up exercises used. In some instances the soldier may apply immediately in practice the lessons learned from the film. For example, a film on the subject of adjustment of the service gas mask may be followed immediately by gas mask drill. Similarly, a film on map reading may be followed by a period devoted to reading various types of maps.

(2) In some cases, however, it may be impractical or undesirable for the troops to carry out immediately the processes portrayed in the film. For example, the film may give information concerning material which is not readily available. In such cases, an oral discussion immediately after the showing of the film will help to emphasize those points which are of greatest importance. Similarly, oral or written quizzes may be used to advantage in such cases. If questions are of the type to which "yes" or "no" answers can be given, "Quiz Cards" may be used. Such discussions or examinations should be built around the key points of the film; they should not stress nonessentials.

(3) The versatile instructor will use demonstrations to follow up a film. For example, the showing of a film on camouflage may be followed by exhibits which present illustrations of good and bad camouflage. Local demonstrations of certain situations shown in a film are often

effective. All activities of this type help to drive home the lesson which a film is designed to teach, heighten the interest of the soldiers, and determine the extent to which the materials have been mastered.

(4) Good follow-up exercises help to integrate training films with other types of training activities.

f. War Department Instructor's Training Film Reference. A Film Reference is published for training films, and for certain film bulletins, released or revised after 1 July 1944. It includes, in addition to a synopsis of the film, a statement of its use and place in the training program, suggested introductory remarks, suggested follow-up activities, a list of correlated training materials, a suggested quiz, and special notes concerning the film; thus it aids the instructor in effectively using the film. Film References take the place of Film Digests formerly published by Army Pictorial Service; they are published and distributed by The Adjutant General to all film libraries for redistribution to holders of Film Digest Catalogs. This distribution is supplemented by a standard distribution to units, schools, and training centers.

g. "Fighting Men" Series. In addition to the films appropriately integrated in the training program, the following films of the "Fighting Men" series should be seen by every combat soldier. Commanders are responsible that they are not shown too early in the training cycle.

Serial No.	Subject
TF 21-1007	Snafu.
21-1018	Keep It Clean.
21-1019	Crack That Tank.
21-1020	How To Get Killed—In One Easy Lesson.
21-1021	Wise Guy.
21-1024	Kill or Be Killed.
21-1026	On Your Toes.
21-1027	Latrinograms.
21-1028	Heroes.
21-1029	On Your Own.
21-1375	Time Out.
21-2014	Baptism of Fire.
21-2015	Secret Weapon.
21-2056	By Your Command.

6. FILMS REQUIRED FOR SHOWING TO ALL MILITARY PERSONNEL

In addition to films appropriately integrated in the training program, War Department directives require that certain films be shown to all military personnel.

a. Special Required Films.

Serial No.	Title	Reference
TF 30-1315	Postal Censorship	War Department letter AG 000.73, 23 December 1943.

b. War Information Films.

Serial No.	Title	Reference
OF 1	Prelude to War	War Department Circular 368, 9 November 1942.
OF 2	The Nazis Strike	War Department Circular 368, 9 November 1942.
OF 3	Divide and Conquer	War Department Circular 368, 9 November 1942.
OF 4	The Battle of Britain	War Department Circular 368, 9 November 1942.
OF 5	The Battle of Russia	War Department Circular 368, 9 November 1942.
OF 16	Know Your Ally—Britain	War Department Circular 247, 9 October 1943.
OF (RF) 51	The Negro Soldier	War Department Circular 208, 25 May 1944.

7. USE OF FILM STRIPS (See SFS 21–1)

a. Careful previewing and studying of a film strip are essential to its effective use. Without such a preview the instructor cannot plan his lesson or use his film strip to maximum advantage. Illustrated Instructor's References are issued for some film strips to help the instructor do this essential planning. These are indicated by the word "Reference" in the numerical listing. (See par. 26.)

b. Some film strips resemble training films in that the frames present a logical development of the subject in a continuous fashion. In such cases, the instructor will build his lesson around the film strip in much the same manner that he builds his lesson around a training film. This is especially true in the case of a number of subjects which are covered by sound film strips, such as SFS 30–3.

c. However, other film strips are prepared like a series of charts. The instructor may use such film strips, or only a certain number of frames in them, to implement the teaching of some specific phase of his lesson.

d. The success with which film strips are used depends not only on careful advance planning, but also on the manner in which the film

strips are presented to the soldiers, the effectiveness of the instructor's commentary and the degree to which the materials presented by the use of film strips are applied to specific practical situations. Typically, film strips can be used most effectively in the instruction of small groups.

e. The projection of film strips is a simple process, and if a shadow box is available or some similar arrangement is made, film strips can be shown in rooms which are only partially darkened, or out of doors if the necessary electrical current is available. (See TM 21–250.)

SECTION III

DISTRIBUTION

8. GENERAL

a. Army Service Forces and Army Ground Forces. Films, film strips, slides, and projection equipment are distributed by the Chief Signal Officer within the continental United States to using units of Army Ground Forces and Army Service Forces as well as to Army Air Forces units located at Ground Forces or Service Forces stations by means of a film library system operated by the service commands. Under the provisions of War Department Memorandum 850-44, 12 August 1944, the commanders of United States Army Forces in all oversea theaters, departments, bases, and defense commands are authorized to establish, and have established in most instances, film and equipment exchanges which serve the same function as the film libraries which are operated by the service commands.

b. Army Air Forces. The production and distribution of films, film strips and recognition slides for Army Air Forces activities is a function of the Commanding General, Army Air Forces, in accordance with Army Air Forces Regulations 50–19, 65–4, and 95–5. Army Air Forces activities will be governed in the requisition of films, film strips, and recognition slides by procedures and approved lists published by the Commanding General, Army Air Forces.

9. FILM LIBRARIES AND FILM AND EQUIPMENT EXCHANGES

a. Central Libraries and Central Film Exchanges. A central distribution library is maintained at the headquarters of each service command, and in most oversea theaters, departments, and defense commands (hereafter referred to as "theaters") a central film and equipment exchange has been established to serve the same function. These libraries or exchanges are stocked with all films which have been approved for showing to troops, and they provide a film distribution service upon a temporary loan basis to all organizations within the jurisdiction of the commanding general of the service command or theater. Loan requests are addressed to the commanding general with instructions as to the number, title, and size (16-mm or 35-mm) of the film required. The central library or film and equipment exchange maintains a stock of films which is used for filling reorders and replacements for sublibraries or subexchanges serving troops within the service command or theater.

b. Sublibraries and Subexchanges. Sublibraries and subexchanges are established at points of major troop concentration within the continental United States and in oversea theaters. The purpose of the sublibrary is to make immediately available to the troops served, the films

for which there is a relatively constant need. Films dealing with subjects for which there is but an occasional demand are obtained from the central library or exchange on a temporary loan basis.

c. Auxiliary Libraries. These are branch libraries under the control of either the local sublibrary or the central library. They are established for convenience of schools and units engaged in specialized training that demonstrate a recurring need for a selected group of films. They are stocked and supervised either by the sublibrary or the central library.

d. Reception Center Libraries. These libraries are established at reception centers and supplied with films by the central library of the service command. The stock consists of the following basic training subjects, arranged in order of recommended use:

Serial No.	Title
TF 21–2067	Introduction to the Army.
8–1238	Sex Hygiene.
8–2060	Pick Up. (May be shown in lieu of 8–1238.)
8–155	Personal Hygiene.
21–2048	Military Courtesy.
11–235	Articles of War.
19–2034	A.W.O.L. and Desertion.
8–2047	First Aid for Battle Injuries.
8–2049	First Aid for Non-Battle Injuries.
7–248	Instruction of the Soldier, Dismounted, Without Arms, Position and Facings.
30–2033	Sucker Bait.

10. FILM CIRCUITS

Distribution of various subjects is accomplished through a system of film circuits established to cover the continental United States and the oversea theaters and bases. This operation consists of booking several activities "geographically located in a given area" on the same circuit. A route sheet is prepared for each circuit and play dates are assigned to each activity which is listed. A copy of the routing schedule is pasted in the cover of the film can. Upon completion of its scheduled play dates, each installation forwards the print on the shipping date indicated, to the next location on the circuit. A supply of posters describing contents of each release, together with booking notices announcing scheduled play dates are mailed to each installation on the circuit approximately 2 weeks in advance of arrival of prints. Initial distribution of films such as the "Why We Fight" series, G. I. Movie Weekly, "Brief for Invasion," and "War Speeds Up," is accomplished through the circuiting system.

11. SUPPLY OF FILMS

The Signal Corps Photographic Center supplies only those films which have been approved for use by the commanding generals of the Army

Ground Forces and Army Service Forces. It does not have authority to procure and distribute commercial films unless these films are first approved for training. The current approved list is contained in this manual. A request for a film that does not have War Department approval for distribution to troops should be addressed to the command responsible for such approval.

a. Initial Distribution. (1) The nature of the initial distribution required is determined for each type of film prior to its release. Films are distributed through film libraries or through film circuits. In special cases, where it is required that films be shown quickly to all military personnel, the film may be distributed simultaneously through circuits and film libraries. In other cases, films which are distributed through film circuits are returned to film libraries for rebooking after the circuits are completed. Initial distribution to oversea installations is standardized for each type of film to accomplish the distribution promptly.

(2) A summary of each *training film* is sent to each central film library and sublibrary approximately 40 days prior to release of the film. The officer in charge, in consultation with training officers, uses this summary to appraise the content of the film. If it pertains to the kind of training carried on at the camp or post where the sublibrary is located, a request for one or more prints is sent immediately to the central library at the headquarters of the service command. The requests from all the sublibraries are coordinated by the central library. The requirements of the loan and depot sections of the central library likewise are determined. A consolidated order, bearing all the requests from the service command, is sent by the service command to the Signal Corps Photographic Center, 35–11 35th Avenue, Long Island City, New York. As soon as the film is approved for training and processing of duplicates is completed, prints are distributed directly to the central library and sublibraries in accordance with instructions of the basic order from the service command.

(3) On Combat Bulletins, certain Film Bulletins, and various miscellaneous releases; it is not feasible to supply advance film notifications to service commands to secure requests for initial distribution since the exact content of such films is not usually known until the film is ready for approval. The exact initial distribution of these films is determined at Signal Corps Photographic Center on the basis of information received from the agency requesting production of the film.

b. Reorders. When a demand develops in a sublibrary for an approved film that was not obtained on initial distribution, or when the number of prints of a film on hand is insufficient to meet the demand, the sublibrary orders additional prints from the central library.

c. Stock Control. Reports on film stock and use in each sublibrary are requested periodically by the central library. The reports are used to

gauge the rate of showing films throughout the service command and to estimate the size of replacement stock required. An inventory of all films is kept by each film library on the Monthly Film Library Report SAU–12.

12. SUPPLY OF FILM STRIPS

a. Supply of film strips is essentially the same as that of training films. To effect initial distribution, an advance notification is forwarded to each central library approximately 20 days before release of the film strip. The officer in charge of the central library, in consultation with training officers, determines the total number of film strips required for all film libraries in the service command and forwards the request to Signal Corps Photographic Center. Upon release of the film strip, prints are distributed to central film libraries as requested. The central film library then redistributes them to sublibraries within the command.

b. To facilitate the use of film strips, projectors may be requisitioned on the basis of one per battalion or similar unit and higher headquarters. Units may draw pertinent film strips and retain them as long as needed. (See sec. III, War Department Circular No. 142, 11 April 1944.)

13. OBSOLETE AND DAMAGED PRINTS

a. All prints of a film or film strip which is declared obsolete are immediately withdrawn from circulation. The film is unwound from the metal reels and disposed of in accordance with paragraph 32b, AR 380–5, 15 March 1944. The empty reels and cans are sent to the central library which ships them to the Signal Corps Photographic Center.

b. Even when shown by trained projectionists, films occasionally become broken, torn, scratched, and otherwise damaged. Minor breaks and tears can be repaired with splicing equipment in the sublibrary. A severely damaged print is sent to the central library and exchanged for one in good condition. The central library withdraws nonusable prints from circulation.

14. SUPPLY OF RECOGNITION FILM SLIDES

Recognition film slides are distributed by the Signal Corps Photographic Center to central film libraries of each service command. The central film library reissues sets of film slides to sublibraries serving installations requiring the slides. The basis of issue of recognition film slides is set up in paragraph 26. Initial distribution to domestic installations is made on that basis as soon as slides are available. Oversea distribution is made only upon request of the appropriate base defense or theater commanders on the basis set up in above mentioned paragraph.

15. SUPPLY OF PROJECTION EQUIPMENT

Distribution of projection equipment for domestic and oversea installations is made by requisition through Signal channels on the Chief Signal Officer. (See ASF Circular 258, 11 Aug 44.) Domestic distribution is made in accordance with T/A 20–2, 11 April 1944 and C 1, 13 August 1944. Oversea distribution is made in accordance with T/O & E 11–500, 22 September 1944.

SECTION IV

LISTS

16. TRAINING FILMS

The following lists show training films issued by film number, title, year released, and running time.

TF No.	Year released	Title	Running time (minutes)
*1–133	1940	Modern Weather Theory—Primary Circulation	19
*1–134	1940	Modern Weather Theory—Development and Characteristics of Atmospheric Waves	14
*1–136	1941	Aircraft Engines—Elements of Electricity as Applied to Ignition Systems	28
1–137	1941	Aircraft Engines—Carburation	36
*1–153	1941	Modern Aladdin's Lamp	22
1–159	1942	Aircraft Machine Gun Sights—Harmonization	16
1–160	1941	Aerodynamics—Air Flow	18
1–161	1941	Aerodynamics—Forces Acting on an Air Foil	26
1–162	1942	Airplane Hydraulic Brakes—Principles of Operation	19
1–163	1942	Synchronization of Aircraft—Principles of Synchronization	8
1–174	1941	Airplane Hydraulic Systems—BC–1 Airplane	15
*1–204	1942	Celestial Navigation—Position Finding on the Earth	15
*1–206	1942	Telegraph Printer—Operation	15
*1–207	1942	Telegraph Printer—General Principles	7
*1–208	1942	Telegraph Printer—Transmitting Mechanism	7
*1–209	1942	Telegraph Printer—Receiving and Printing Mechanism	12
*1–210	1942	Telegraph Printer—Assembly and Installation	17
1–211	1941	Airplane Structures—Structural Units, Materials and Loads for Which Designed	8
1–212	1941	Airplane Structures—Wing Construction	11
1–213	1941	Airplane Structures—Fuselage Construction	8
1–215	1942	Airplane Structures—Alighting Gear	10
*1–222	1942	Small Arms Ammunition—.30 Cal., .50 Cal., and .45 Cal.	9
*1–226	1942	Aerial Bombs—Fusing and Loading	13
1–227	1941	Aerial Bombs—Practice	13
1–238	1942	Tow Targets—Launching	16

*Authorized for ASF and AGF training and for permanent retention by film libraries.

TF No.	Year released	Title	Running time (minutes)
1-239	1942	Tow Targets—Operation and Maintenance of C-5 Windlass	16
1-245	1943	Aerial Navigation—Maps and the Compass	13
1-246	1942	Airplane Propellers—Principles and Types	19
1-247	1942	Synchronization of Aircraft—Installation and Adjustment	27
1-255	1941	Aerial Bombs—Equipment for Loading Bombs	16
1-256	1942	Aerial Bombs—Methods of Loading Bombs	16
*1-260	1942	Aircraft Machine Guns and Cannon—.50 Caliber Machine Gun, Stripping and Assembly	19
*1-261	1942	Aircraft Machine Guns and Cannon—.50 Caliber Machine Gun, Operation	15
1-267	1941	Airplane Structures—Alighting Gear, P-40 Series	17
*1-277	1942	Theory of Bombing	19
1-285	1942	Airplane Propellers—Hamilton Constant-Speed, Theory and Operation	12
1-286	1942	Airplane Propellers—Hamilton Constant-Speed, Removal and Disassembly	20
1-287	1942	Airplane Propellers—Hamilton Constant-Speed, Servicing	21
1-288	1942	Airplane Propellers—Hamilton Constant-Speed, Reassembly and Adjustment	37
1-289	1942	Airplane Propellers—Hamilton Constant-Speed, Installation	9
*1-290	1942	Celestial Navigation—Introduction and Location of Celestial Points	18
1-292	1942	Airplane Antennas—Types and Typical Installations	23
*1-294	1942	Identification of Aircraft—Messerschmitt 109	8
1-305	1942	Airplane Hydraulic Brakes—Types, Construction and Action	29
1-306	1942	Airplane Hydraulic Brakes—Brake Adjustment, Bendix Single Servo	9
1-307	1942	Airplane Hydraulic Brakes—Brake Adjustment, Hayes and Goodyear Brakes	17
1-308	1942	Airplane Hydraulic Brakes—Servicing the Brake Lines	20
1-309	1942	Airplane Hydraulic Brakes—Care and Maintenance of Hydraulic Actuating Cylinders	12
1-310	1941	Airplane Propellers—Curtiss Electric, Removal and Disassembly	12
1-311	1942	Aircraft Machine Guns and Cannon—37-mm Automatic Cannon, Stripping and Assembling	27
1-312	1942	Airplane Structures—Static Test	12
*1-313	1942	Physiology of High Altitude Flying	19
1-323	1942	Airplane Structures—Manufacturing Methods	25
1-326	1942	Aerial Navigation—Dead Reckoning	26
*1-327	1942	Aerial Navigation—Radio Aids	30
*1-328	1942	Aerial Navigation—Airways Flying	38
1-329	1942	Aerial Navigation—Search and Interception	18
1-330	1942	Aerial Navigation—Radius of Action	10
1-331	1942	The Automatic Pilot—The Directional Gyro	8
1-332	1942	The Automatic Pilot—The Gyro Horizon	9
1-400	1942	Tactics and Technique of Air Reconnaissance and Observation	13
*1-401	1943	Effects of Aerial Bombs	8

*Authorized for ASF and AGF training and for permanent retention by film libraries.

TF No.	Year released	Title	Running time (minutes)
*1-402	1943	Soldering Electrical Connections	18
1-403	1942	The Use of the Type B-2 Field Lighting Sets	7
1-404	1942	Adjustment of the B-2 Field Lighting Sets	26
1-406	1942	Fighter Aviation in Air Defense—Observation, Control and Interception	17
1-410	1943	The Fighter Squadron—Its Organization and Administration	17
1-412	1943	Air Forces Ground Radio Equipment SCR-188A	19
1-415	1943	Training of Aerial Gunners (Fixed)—Ground Targets	20
1-416	1944	Training Aerial Gunners (Fixed)—Aerial Targets	15
*1-438	1942	Identification of Aircraft—Spitfire	5
1-445	1942	1820 Wright Engine—Removing Cylinders and Nose Section	10
1-446	1942	1820 Wright Engine—Disassembling the Power Section	15
1-447	1942	1820 Wright Engine—Disassembling Supercharger Section	18
1-448	1942	1820 Wright Engine—Disassembling Nose	6
1-449	1942	1820 Wright Engine—Disassembling Crankshaft Section	9
1-450	1942	1820 Wright Engine—Cleaning Up	20
1-451	1942	Airplane Propellers—Hamilton Hydromatic, Theory and Operation	17
1-452	1942	Airplane Propellers—Hamilton Hydromatic, Removal	11
1-453	1942	Airplane Propellers—Hamilton Hydromatic, Servicing	8
1-454	1942	Airplane Propellers—Hamilton Hydromatic, Reassembly and Adjustment	44
1-455	1942	Airplane Propellers—Hamilton Hydromatic, Propeller Installation	13
1-456	1942	Airplane Propellers—Curtiss Electric Propeller, Disassembly of the Power Unit	12
1-457	1942	Airplane Propellers—Curtiss Electric, Disassembling the Hubs and Blades	14
1-458	1942	Airplane Propellers—Curtiss Electric, Disassembling Governor	22
1-459	1942	Airplane Propellers—Curtiss Electric, Reassembling the Power Unit	37
1-460	1942	Airplane Propellers—Curtiss Electric, Reassembling the Hub and Blades	21
1-461	1942	Airplane Propellers—Curtiss Electric, Reassembling the Governor	24
1-462	1942	Airplane Propellers—Curtiss Electric, Balancing	17
1-463	1942	Airplane Propellers—Curtiss Electric, Theory and Operation	30
1-464	1942	Airplane Propellers—Curtiss Electric, Installation	11
1-465	1943	Sea Rescue Equipment for Airplane Crews—One-Man Sea Rescue Equipment	13
1-466	1943	Sea Rescue Equipment for Airplane Crews—Inspection and Maintenance	25
1-468	1942	Airplane Propellers—Hamilton Hydromatic—Disassembly	26
1-469	1943	Airplane Turrets—Emerson Nose and Tail Turrets: Operation and Servicing	33

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TF No.	Year released	Title	Running time (minutes)
*1-470	1942	Vacuum Tubes—Elementary Electron Theory and the Diode Tube	14
*1-471	1942	Vacuum Tubes—The Triode and Multi-Purpose Tubes	14
*1-472	1942	Radio Receivers—Principles of Radio Receivers	17
1-473	1943	Airplane Turrets—Crocker-Wheeler Training Turret	22
*1-474	1942	Radio Antennas—Creation and Behavior of Radio Waves	11
*1-475	1942	Radio Antennas—Fundamentals of the Antenna	13
*1-476	1942	Radio Transmitters—Principles and Typical Circuits	18
1-480	1943	Aircraft Machine Guns and Cannon—Stripping and Assembling the .30 Caliber Machine Gun	18
1-482	1942	Aircraft Machine Guns and Cannon—20-mm Aircraft Gun, Stripping and Assembling	30
1-483	1942	Aircraft Machine Guns and Cannon—Care and Cleaning	24
1-484	1943	The A-N Gun Camera—Operation and Installation	12
*1-486	1942	Swim and Live	19
1-487	1942	Oxygen Equipment—Types and Use at High Altitudes	24
1-488	1943	Oxygen Equipment—Servicing Equipment in the Airplane	11
1-489	1943	Oxygen Equipment—Servicing High-Pressure Removable Cylinders	10
1-492	1942	Formation Flying—Basic	8
1-494	1942	Gentle, Medium, Steep Climbing, and Gliding Turns	11
1-495	1942	Chandelles	7
1-497	1943	High Level Bombing	9
1-499	1942	Airplane Hydraulic Brakes—Bendix Duo Servo	16
1-500	1942	Airplane Hydraulic Brakes—Disassembly and Reassembly of Hayes Shoe-Type Brake	20
1-501	1943	Airplane Hydraulic Brakes—Disassembly and Reassembly of Bendix-Shoe-Type Brake	10
1-502	1943	Airplane Hydraulic Brakes—Disassembly and Reassembly of Disc-Type Brakes	15
1-503	1942	Airplane Hydraulic Brakes—Disassembly and Reassembly of Tube-Type Brakes	11
1-504	1942	Airplane Hydraulic Brakes—Proper and Improper Utilization of Brakes	6
1-505	1943	Acrobatics	19
1-506	1942	Plan Your Practice Solos	13
1-507	1942	The Automatic Pilot—Basic Principles of the Automatic Pilot	10
1-508	1942	Automatic Pilot—A-2 Automatic Pilot Mechanics	18
1-509	1942	Automatic Pilot—A-2 Automatic Pilot Operation	12
1-511	1942	Aircraft Alighting Gear—Removal of Nose Alighting Gear	6
1-512	1942	Aircraft Alighting Gear—Installation of Nose Alighting Gear	6
1-513	1942	Aircraft Alighting Gear—Removal of Main Alighting Gear	8
1-514	1942	Alighting Gear—Installation of Main Alighting Gear	5
1-515	1942	Aircraft Alighting Gear—Inspection of Alighting Gear	10
1-516	1942	Aircraft Alighting Gear—Maintenance of Alighting Gear	12
1-517	1942	The Sensitive Altimeter—General Use	18
1-519	1942	Aircraft Alighting Gear—Assembling of the Main Alighting Gear Shock Strut	20

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TF No.	Year released	Title	Running time (minutes)
1-532	1942	Preflight Inspection of the B-17E—The Crew Chief	40
*1-533	1942	Preflight Inspection of the B-17E—The Radio Mechanic	29
1-534	1942	Preflight Inspection of the B-17E—The Armorer	31
*1-536	1942	Parachutes—Construction and Types	10
1-537	1942	Parachutes—Folding and Packing the Service Seat Parachute	10
1-541	1942	Parachutes—Adjustment of Harness	16
1-542	1942	Parachutes—Maintenance	16
1-544	1942	Celestial Navigation—Bearings, Single Line of Position and Fixes	18
1-545	1942	Celestial Navigation—Latitude by Polaris	9
1-546	1942	Celestial Navigation—Time	10
1-547	1942	Celestial Navigation—Star Identification	12
1-548	1942	Celestial Navigation—Landfall Flight	14
1-550	1942	Celestial Navigation—Solution of Illustrative Problems in Celestial Navigation	31
1-566	1942	Servicing the Aviation Spark Plug	23
1-700	1943	Airplane Structures—Control Surfaces	7
1-701	1942	The Allison Engine—Introduction and Characteristics	8
1-702	1942	The Allison Engine—Unpacking, Preliminary Disassembly of Ignition Shielding Assembly and Cylinder Blocks on the V-1710 Engine	24
1-703	1942	The Allison Engine—Preliminary Disassembly of Reduction Gear Assembly, Accessory Housing, Crank Case, and Crankshaft Assembly on the V-1710 Engine	20
1-704	1942	The Allison Engine—Disassembly of the Cylinder Blocks on the V-1710 Engine	14
1-705	1942	The Allison Engine—Disassembly of the Reduction Gears in V-1710 Type "F" Engine	18
1-706	1942	The Allison Engine—Disassembly of the Reduction Gear in V-1710 Type "E" Engine	20
1-707	1942	The Allison Engine—Disassembly of the Accessory Housing on V-1710 Engine	33
1-708	1942	The Allison Engine—Disassembly of the Crankshaft Unit on the V-1710 Engine	16
1-709	1942	The Allison Engine—Teardown Inspection of the V-1710 Engine	9
1-710	1942	The Allison Engine—Reassembling the Reduction Gears in V-1710 Type "F" Engine	31
1-711	1942	The Allison Engine—Reassembling the Reduction Gears on the V-1710 Type "E" Engine	25
1-712	1942	The Allison Engine—Reassembling Cylinder Blocks in the V-1710 Engine	25
1-713	1943	Preflight Inspection of Bombing Equipment—The B-24 Liberator	10
1-714	1942	The Allison Engine—Reassembling the Crankshaft Unit on the V-1710 Engine	27
1-715	1943	The Allison Engine—Reassembling the Complete V-1710 Engine	39
1-716	1943	The Allison Engine—Timing the V-1710 Engine	31

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TF No.	Year released	Title	Running time (minutes)
1–717	1943	The Squadron Communications Officer	22
1–718	1942	Communications Facilities of the O–52 Airplane	27
1–719	1942	The Allison Engine—Reassembly of V–1710 Engine Accessory Housing; Preliminary Assembly	14
1–720	1942	The Allison Engine—Reassembly of V–1710 Engine Accessory Housing; Bench Assembly	23
1–721	1942	The Allison Engine—Reassembly of V–1710 Engine Accessory Housing: Final Assembly	19
1–722	1943	The A–N Gun Camera—Scoring of Film	19
*1–724	1943	Camouflage of Airdromes	28
1–725	1943	Operation of the Landing Gear of the AT–9	7
1–726	1943	Modern Weather Theory—Weather Within an Occluded Wave	23
1–728	1942	Preparation of Aircraft Engines for Storage-Preservation	25
1–729	1942	Preparation of Aircraft Engines for Storage—Retreatment and Preparation for Service	13
1–731	1942	Disassembly of the P–40—Removal of Engine Cowling and Keel Fairing	10
1–732	1942	The Disassembly of the P–40—Oil and Coolant Radiators	7
1–733	1942	Disassembly of the P–40—Movable Control Surfaces	11
1–734	1942	Disassembly of the P–40—Fixed Tail Surfaces	4
1–735	1942	Disassembly of the P–40—Radio Equipment	7
1–736	1942	Disassembly of the P–40—Separation of Fuselage and Wing	18
1–737	1942	Disassembly of the P–40—Fuel Tanks	15
1–738	1942	Disassembly of the P–40—Landing Gear	13
1–739	1942	Disassembly of the P–40—Armament	8
1–740	1942	Disassembly of the P–40—Wing Panels	13
1–741	1942	Disassembly of the P–40—The Allison Engine	14
1–742	1942	Disassembly of the P–40—Canopy and Windshield	8
1–743	1942	Disassembly of the P–40—Instrument and Switch Panel	7
1–744	1942	Disassembly of the P–40—De-Icer, Coolant and Oil Tanks	8
1–745	1942	Disassembly of the P–40—Miscellaneous Equipment	9
1–746	1942	Assembly of the P–40—The Allison Engine	15
1–747	1942	Assembly of the P–40—The Packard Engine	13
1–749	1943	Preflight Inspection of the B–24D—The Radio Mechanic	28
*1–750	1943	Packing the Troop Type Parachute	38
*1–752	1943	Identification of Aircraft—Me–109F	4
1–756	1943	Airplane Engine Cooling Systems—For Mechanics (Liquid-Cooled Engine)	12
1–757	1943	Airplane Engine Cooling Systems—For Mechanics (Air-Cooled Engine)	14
1–758	1943	Airplane Engine Cooling Systems—For Pilots	16
1–759	1943	Diagnosis of Machine Gun Stoppages	16
1–766	1943	Preflight Inspection of the B–24D—The Crew Chief	30
1–767	1943	The Radio Compass—Description and Operation	17
1–768	1943	The Radio Compass—Maintenance and Trouble-Shooting	19
1–769	1943	The Radio Compass—The Radio Compass in Flight	24
1–770	1943	Aircraft Instruments—Tachometer Repair	30
1–771	1943	Preflight Radio Inspection for Fighter Aircraft	15

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TF No.	Year released	Title	Running time (minutes)
1–773	1943	Airplane Turrets—Operation and Servicing of the P–61 GE Turret System	29
1–776	1943	Preflight Inspection of the C–47—The Crew Chief	27
1–778	1942	Formation Procedures for Bad Weather Areas—For Bombers	10
1–791	1943	Fifty-hour Inspection of the P–38 Lightning—Airplane in General	21
1–792	1943	Fifty-hour Inspection of P–38 Lightning—Engines	16
1–793	1943	Fifty-hour Inspection of the P–38 Lightning—Propellers	17
1–794	1943	Fifty-hour Inspection of the P–38 Lightning—Fuel, Oil and Cooling Systems	15
1–795	1943	Fifty-hour Inspection of P–38 Lightning—Electrical and Ignition Systems	16
1–796	1943	Fifty-hour Inspection of P–38 Lightning—Landing Gear and Hydraulic System	16
1–797	1944	Survival of the Fittest	17
1–798	1943	Training Group Administration	32
1–799	1943	Fifty-hour Inspection of Aircraft Engines and Navigation Instruments	22
1–800	1943	Aircraft Instruments—Introduction	13
1–801	1943	Aircraft Instruments—Line Maintenance	18
1–803	1943	Mission of the Air Transport Command	22
1–804	1943	Weight and Balance Control of Cargo Aircraft	21
*1–805	1943	Loading of Cargo Aircraft	26
1–808	1943	Miscellaneous Cold Weather Operations of Aircraft	17
1–809	1943	Engine Piston Cleaning	17
1–810	1942	Airplane Turrets—Bendix Upper Turret, Operation and Servicing	17
1–811	1942	Airplane Turrets—Bendix Lower Turret, Operation and Servicing	18
1–813	1942	Airplane Turrets—Servicing and Operation of Martin Upper Turret (Original Type)	22
1–814	1943	Airplane Turrets—Servicing and Operation of Martin Upper Turret (Modified Type)	20
1–816	1943	Minor Repair of Metal Covered Wings and Control Surfaces	30
1–818	1943	Fifty-hour Inspection of the B–24D—The Airplane in General	8
1–819	1943	Fifty-hour Inspection of the B–24D—Engines and Propellers	9
1–820	1943	Fifty-hour Inspection of the B–24D—Ignition and Electrical System	10
1–821	1943	Fifty-hour Inspection of the B–24D—Fuel and Oil Systems	13
1–822	1943	Fifty-hour Inspection of the B–24—Hydraulics	24
1–824	1943	Fifty-hour Inspection of the B–17F—The Airplane in General	17
1–825	1943	Fifty-hour Inspection of the B–17F—Engines and Propellers	16
1–826	1943	Fifty-hour Inspection of the B–17F—Ignition and Electrical System	22
1–827	1943	Fifty-hour Inspection of the B–17F—Fuel and Oil Systems	17

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TF No.	Year released	Title	Running time (minutes)
1-829	1943	Fifty-hour Inspection of B-17F—Hydraulic System and Landing Gear	16
1-838	1942	Airplane Fixed Guns in the P-38E	19
1-839	1943	Airplane Fixed Guns in the P-40	19
1-840	1943	Airplane Fixed Guns in the P-47	15
1-843	1944	Condensation Trails	18
1-844	1943	Flutter and Its Prevention	18
1-846	1943	Common Errors Experienced in Take-offs	11
1-847	1943	A-2 Portable Photographic Laboratory	29
1-848	1943	Repairing Fabric Wings—Part I—Covering the Wing	23
1-849	1943	Repairing Fabric Wings—Part II—Patching Damaged Fabric	14
1-851	1943	Cylinder Grinding and Honing	20
1-852	1943	Leather Repair	18
1-853	1943	Repairing Propeller Blades	20
1-855	1943	Fifty-hour Inspection of B-26 Marauder—Airplane in General	28
1-856	1943	Fifty-hour Inspection of the B-26—Engines and Propellers	20
1-857	1943	Fifty-hour Inspection of B-26 Marauder—Ignition and Electrical Systems	35
1-858	1943	Fifty-hour Inspection of B-26 Marauder—Fuel and Oil Systems	24
1-859	1943	Fifty-hour Inspection of B-26 Marauder—Hydraulics	40
*1-861	1943	The Air Defense Team—Introduction	9
*1-862	1943	The Air Defense Team—Controlled Interception	19
*1-863	1943	The Air Defense Team—VHF Control Net System	17
*1-864	1943	The Air Defense Team—Intercept Board Operations	19
*1-865	1943	Air Defense Team—Fighter Searchlight Team	12
1-866	1944	Air Defense Team—Night Fighters	13
*1-867	1943	Air Defense Team—Anti-Aircraft Artillery Defense	11
1-869	1943	Technical Intelligence—Inspection of Captured Enemy Air Equipment	20
1-870	1943	Photographic Interpretation Technique	21
1-871	1943	The Norden Bombsight—Part I—Principles	21
1-872	1943	The Norden Bombsight—Part II—Operation	13
1-873	1943	The Norden Bombsight—Part III—Preflight Inspection	9
1-874	1943	The Norden Bombsight—Part IV—Conduct of the Mission	14
1-875	1943	The Norden Bombsight—Part V—The Levelling System	5
1-876	1942	Servicing the P-39—Wheels and Tires	8
1-877	1942	Servicing the P-39—Removal and Installation of Main Wheel Spindle	10
1-878	1942	Servicing the P-39—Removal and Installation of the Landing Gear Struts	8
1-884	1942	Cyclone Combustion	25
1-887	1942	Servicing the Sodium Cooled Aircraft Valve	25
1-888	1942	How to Machine Aluminum	31
1-889	1942	How to Weld Aluminum	32
1-890	1942	How to Rivet Aluminum	25
1-891	1942	Plexiglas	19
1-892	1943	Minimum Altitude Bombing Attacks	18

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TF No.	Year released	Title	Running time (minutes)
1-893	1943	Combat Gunnery	18
*1-900	1942	Identification of U. S. Army Aircraft—The B-17F	10
*1-901	1942	Identification of U. S. Army Aircraft—The B-24D	9
*1-902	1942	Identification of U. S. Army Aircraft—The A-20B	10
*1-904	1942	Identification of U. S. Army Aircraft—The A-24	9
*1-907	1942	Identification of U. S. Army Aircraft—The C-54	9
*1-909	1942	Identification of U. S. Army Aircraft—The C-60A	8
*1-1016	1943	Identification of Merchantmen	30
*1-1017	1943	Identification of Raiders	19
1-3300	1943	Learn and Live	45
1-3301	1943	How to Fly the B-26 Airplane	48
*1-3302	1943	Recognition of the Japanese Zero	20
*1-3303	1943	Identification of the Japanese Zero	8
1-3304	1943	Sustineo Alas	22
1-3305	1943	Take-offs	25
*1-3306	1943	Photo Intelligence in Bombardment Aviation	23
1-3307	1943	Straight and Level Flight	17
1-3308	1943	Use of Oxygen in Aviation	22
1-3309	1944	Elementary and Pylon Eights	9
1-3310	1943	Radio Operator	20
1-3311	1943	Cadet Classification	19
1-3312	1943	Army Flying Regulations	13
1-3313	1943	Introduction to Flying Technique	19
1-3314	1943	Keep 'Em Flying	30
1-3315	1943	Eyes Aloft	17
1-3317	1943	Bombardier-Navigator	14
1-3318	1943	Instrument Flight	18
1-3319	1944	Landings	28
1-3320	1943	Advanced Formation Flying	20
1-3322	1943	Troop Carrier Airplanes—Power Controlled Approach and Landing	15
1-3323	1943	Troop Carrier Airplanes—Performance of A Troop Carrier Mission	13
1-3324	1943	Briefing and Interrogation of Combat Crews	35
1-3325	1944	Fighter Combat Formation—Attacks and Escort	10
*1-3326	1943	Interrogation of Enemy Airmen	30
1-3327	1943	Air Force Intelligence	30
1-3328	1943	Procedure in Pilotage and Dead Reckoning for Pilots	37
1-3329	1943	Crew Observation—Synthetic Training	8
1-3331	1944	Crash Landings in Unfavorable Terrain	20
1-3332	1943	Flight Characteristics of the A-20 Airplane	19
1-3333	1944	High Level Precision Bombing—The Bombing Computers	25
1-3334	1944	High Level Precision Bombing—Combat Bombing Procedures	22
1-3335	1943	Emergency Care of Air Crew Casualties	58
1-3336	1944	Lazy Eights	11
1-3337	1943	Bombers Over North Africa	35
1-3338	1944	Electronic Turbo Supercharger Control System	40
1-3339	1944	All Weather Flight Methods	39
1-3340	1943	Photo Intelligence in Damage Assessment	30

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TF No.	Year released	Title	Running time (minutes)
1-3341	1943	Service Group	21
1-3342	1944	Three Cadets	28
*1-3343	1944	Malaria Discipline	35
1-3344	1944	Flying the Hurdle Stage	15
1-3345	1944	Ground Crew Safety	17
1-3346	1944	Land and Live in the Desert	40
*1-3347	1944	Land and Live in the Jungle	60
1-3348	1944	How to Fly the B-26 Airplane—Loading	18
1-3349	1943	Military Airdrome Construction	16
1-3350	1943	Glider Technique	37
*1-3351	1944	Camouflage Cartoon	20
1-3252	1944	Fighter-Bomber Aircraft Against Mechanized Targets	20
1-3353	1944	B-29 Flight Procedure and Combat Crew Functioning	38
1-3354	1944	(CONFIDENTIAL)**	37
1-3356	1944	Desert Servicing of Aircraft	40
*1-3357	1944	Recognition of the L-4 Airplane	4
1-3358	1944	Flight Characteristics of the P-51	29
1-3359	1944	Aircraft Hoisting	25
1-3360	1944	How to Fly the B-25	25
1-3361	1944	Tactical Use of the CG-4A Glider	26
*1-3362	1944	Recognition of the L-5 Airplane	6
*1-3363	1944	Recognition of the B-29	5
*1-3364	1944	Recognition of the CG-4A Glider	7
1-3366	1944	Position Firing	14
1-3367	1944	Don't Drop Those Tanks Too Soon	7
*1-3369	1944	Recognition of Aircraft—AAF Quizcraft No. 11	8
*1-3370	1944	Recognition of Aircraft—AAF Quizcraft No. 12	10
*1-3371	1944	Recognition of the A-26	6
*1-3372	1944	Recognition of the P-63	8
*1-3373	1944	Recognition of the Japanese "Hamp" Airplane	7
*1-3374	1944	Recognition of the P-61 Airplane	6
*1-3375	1944	Recognition of the C-46 Airplane	8
1-3376	1944	Airplane Gun Sights—Type K-8 Sight	13
*1-3377	1944	Recognition of the Japanese "Tony" Airplane	7
*1-3378	1944	Recognition of the Japanese "Oscar" Airplane	5
*1-3379	1944	Recognition of the Japanese "Dinah" Airplane	7
1-3380	1944	VHF Airborne Radio Set SCR-522	24
1-3381	1944	VHF Ground Transmitter and Receiver Stations—Installation and Operation of SCR-573 and SCR-574	24
1-3382	1944	VHF/DF Units	34
1-3383	1944	Resisting Enemy Interrogation	60
1-3384	1944	Target for Today	75
1-3385	1944	Ditch and Live	43
*1-3386	1944	Recognition of the Japanese "Tojo" Airplane	6
*1-3387	1944	Recognition of the Japanese "Helen" Airplane	6
*1-3388	1944	Recognition of the Japanese "Nick" Airplane	7
1-3389	1944	"Flak"	17
1-3390	1944	Mark III IFF	30
1-3391	1944	Your Safety Harness	8

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TF No.	Year released		Running time (minutes)
1-3392	1944	Aircraft Recognition Proficiency Examination for Flexible Gunners (Form A and B)	23
1-3393	1944	Navigation—Target Approach	65
1-3394	1944	How to Fly the B-17—Flight Procedures	28
1-3395	1944	How to Fly the B-17—Part III—Emergency Operations	35
*1-3397	1944	Recognition of Aircraft—AAF Quizcraft No. 14	9
1-3398	1944	(CONFIDENTIAL)**	24
1-3399	1944	Operation of Glider Pick-Up of the C-47	16
1-3401	1943	Greenland Flight	20
1-3403	1943	Land and Live in the Arctic	58
*1-3425	1944	AAF Testcraft No. 1—(European Theater)	10
*1-3426	1944	AAF Testcraft No. 2—(European Theater)	10
1-3427	1944	Fighter Kills and Strafing	27
*1-3428	1944	AAF Testcraft No. 3—(Pacific Theater)	10
*1-3429	1944	AAF Testcraft No. 4—(Pacific Theater)	10
*1-3430	1944	AAF Testcraft No. 5—(Fighter and Medium Bombardment Aircraft for Flexible Gunners)	10
1-3432	1944	50-hour Inspection of the B-29: Propeller, Engine and Nacelle	55
1-3440	1944	An Aviation, Engineer, Amphibious Operation	12
1-3443	1944	Air—POM—Preparations for Oversea Movement	16
1-3444	1944	Troop Carrier Airplanes—Cockpit Procedure	34
*1-3600	1943	Recognition of Aircraft—British Quizcraft No. 1	10
*1-3601	1943	Recognition of Aircraft—British Quizcraft No. 2	9
*1-3602	1943	Recognition of Aircraft—British Quizcraft No. 3	10
*1-3603	1943	Recognition of Aircraft—British Quizcraft No. 4	9
*1-3604	1943	Recognition of Aircraft—British Quizcraft No. 5	9
*1-3605	1943	Recognition of Aircraft—British Quizcraft No. 6	9
*1-3606	1943	Recognition of Aircraft—British Quizcraft No. 7	10
*1-3607	1943	Recognition of the Martlet (F4F)	5
*1-3608	1943	Recognition of the Catalina (PBY-5)	6
*1-3609	1943	Recognition of the Mosquito	6
*1-3610	1943	Recognition of the Sunderland	7
*1-3611	1943	Recognition of the Typhoon I	6
*1-3612	1943	Recognition of the Albacore	7
*1-3613	1943	Recognition of the Barracuda	6
*1-3615	1943	Recognition of the Master III	7
*1-3616	1943	Recognition of the Hudson	7
*1-3617	1943	Recognition of the Baltimore	8
*1-3618	1943	Recognition of the Horsa Glider	6
*1-3619	1944	Recognition of the Blohm Voss 138	8
*1-3620	1943	Recognition of the Focke-Wulfe 189	7
*1-3621	1943	Recognition of the Heinkel 177	6
*1-3622	1944	Recognition of the ME-210	8
*1-3623	1943	Recognition of the Glider DFS-230	4
*1-3627	1944	Recognition of Aircraft—British Testcraft No. 2	11
*1-3629	1944	Recognition of Aircraft—British Testcraft No. 3	10
*1-3630	1944	Recognition of the Marauder (B-26)	6
*1-3631	1944	Recognition of the York	8

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TF No.	Year released	Title	Running time (minutes)
*1-3632	1944	Recognition of the Firefly	5
*1-3633	1943	Recognition of the Dakota (C-47)	8
1-3634	1943	Ditching Without Hedging	22
*1-3635	1944	Recognition of the Lightning	6
*1-3636	1944	Recognition of the Warhawk	5
*1-3637	1944	Recognition of the Thunderbolt	5
1-3638	1944	The Aircraft Magneto—Theory and Operation of the Four-Pole Magneto	30
*1-3640	1944	Recognition of the Mitchell B-25	7
*1-3642	1944	Recognition of the Beaufighter	5
*1-3643	1944	Recognition of the Wellington	7
*1-3644	1944	Recognition of the Lancaster	7
*1-3645	1944	Recognition of the Halifax and JU-90	9
*1-3648	1944	Recognition of Aircraft—British Testcraft No. 4	10
1-3653	1944	Radar Indicators	15
*1-3661	1944	Recognition of the Japanese "Sally"	6
*1-3662	1944	Recognition of the Japanese "Lily"	5
*1-3663	1944	Recognition of Aircraft—Introduction to Aircraft	13
1-3664	1944	Naught Feet	17
1-3665	1944	Parachuting Into Water	31
*1-3666	1944	Recognition of Aircraft—British Testcraft No. 1	10
1-3667	1944	Introduction to the P-63	19
1-3668	1944	Assembly and Rigging of the P-63 Airplane	25
1-3670	1944	Basic Hydraulics	9
1-3672	1944	Replacing Oil Cooler Tubes	9
*1-3673	1944	Recognition of Aircraft—British Quizcraft No. 8	10
*1-3674	1944	Recognition of Aircraft—British Quizcraft No. 9	10
*1-3675	1944	Recognition of Aircraft—British Quizcraft No. 10	10
1-3676	1944	GB-4 Glide Bomb	16
1-3677	1944	The Story of the Helicopter	21
1-3678	1944	Azon Bombs—Inspection and Loading	20
1-3679	1944	Rebecca-Eureka	22
1-3680	1944	H-2-S	35
1-3682	1944	GEE	48
1-3683	1944	Elements of Microwave Radar	23
*1-3689	1944	Recognition of the F6F Hellcat	8
*1-3690	1944	Recognition of the F4U Corsair	7
*1-3691	1944	Recognition of the OS2U Kingfisher	10
*1-3692	1944	Recognition of the SB2C Helldiver	7
*1-3693	1944	Recognition of the PBM Mariner	8
*1-3694	1944	Recognition of the Mavis	6
*1-3695	1944	Recognition of the Betty	4
*1-3696	1944	Recognition of the TBF Avenger	8
1-3697	1944	Ships Nomenclature	12
*1-3698	1944	Recognition of Aircraft—Navy Quizcraft 13	10
*1-3699	1944	Recognition of Aircraft—British Quizcraft 15	10
*1-3700	1944	Recognition of Aircraft—Navy Quizcraft 17	10
*1-3701	1944	Recognition of the Mustang	7
*1-3702	1944	Recognition of Aircraft—Navy Testcraft 1	8
*1-3703	1944	Recognition of Aircraft—Navy Testcraft 2	8

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TF No.	Year released	Title	Running time (minutes)
*1-3704	1944	Recognition of Aircraft—Navy Testcraft 3	10
*1-3705	1944	Recognition of Aircraft—Navy Testcraft 4	8
1-3706	1944	How to Use the Firestone Aircraft Tire Tool	8
1-3707	1944	Field Inspection and Servicing of the Wright Cyclone 18 R-3350 Engine	140
1-3708	1944	Out of Bed—Into Action	17
1-3711	1944	(Confidential)**	105
*1-3712	1944	Aircraft Recognition Test—Test No. 5	10
*1-3713	1944	Aircraft Recognition Test—Test No. 7	10
*1-3714	1944	Aircraft Recognition Test—Test No. 9	10
*1-3715	1944	Aircraft Recognition Test—Test No. 10	10
1-3717	1944	(Confidential)**	17
1-3718	1944	(Confidential)**	18
2-17	1934	Cavalry Rifle Platoon—From Mounted to Dismounted Act	11
2-600	1942	Horsemanship—Part I—Saddling and Bridling	24
2-601	1942	Horsemanship—Part II—Mounting and Military Seat	30
2-602	1942	Horsemanship—Part III—Aids and Gaits	39
2-603	1942	Horsemanship—Part IV—Suppling Exercises	16
2-604	1942	Horsemanship—Part V—Jumping and Cross-Country Riding	32
2-943	1942	Pack Transportation—Part I—Selection of the Animal	18
2-944	1942	Pack Transportation—Part II—The Pack Saddle	17
2-945	1942	Pack Transportation—Part III—The Cargo Saddle	21
2-946	1942	Pack Transportation—Part IV—Field Adjustment and Carrying of Equipment	17
2-982	1942	Cavalry Rifle Platoon—Part I—Organization, Equipment, and Drill	25
2-983	1943	Cavalry Rifle Platoon—Part II—Combat Training	24
2-984	1943	Cavalry Rifle Platoon—Part III—Delaying Action	13
2-985	1943	Cavalry Rifle Platoon—Part IV—Platoon Defense	10
2-1130	1943	Scouting and Patrolling—Part I—The Mounted Scout (Cav.) Horse	35
2-1261	1943	Scouting and Patrolling—Part II—The Mounted Patrol, Horse	18
2-1267	1943	Horsemastership—Care of Animals in the Field	31
3-216	1941	Adjustment of the Service Gas Mask	17
3-217	1941	Inspection of the Service Gas Mask	9
3-218	1941	Adjustment of the Training Gas Mask	17
3-219	1941	Inspection of the Training Gas Mask	8
3-591	1942	Horse Gas Masks M4 and M5	16
3-667	1942	Decontamination Procedures—Part I—Personnel and Areas	19
3-687	1942	Decontamination Procedures—Part II—Equipment	11
3-689	1942	Defense against Chemical Warfare	10
3-957	1942	Defense against Incendiaries	21
3-1164	1943	Construction of Gasproof Shelters in the Field	21
3-1165	1943	Operation of the Mechanical Smoke Generator	20
3-1248	1943	Filling and Handling of Airplane Spray Tanks—Part I—The M10 Tank	11
3-1249	1943	Filling and Handling of Airplane Spray Tanks—Part II—The M33 Tank	19

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TF No.	Year released		Running time (minutes)
3–1250	1943	Filling and Handling of Airplane Spray Tanks—Part III—Filling	19
3–1251	1943	Filling and Handling of Airplane Spray Tanks—Part IV—Transportation and Preparation	16
3–1252	1943	Filling and Handling of Airplane Spray Tanks—Part V—Decontamination	11
3–1339	1944	Adjustment of the Lightweight Service Gas Mask	16
3–1341	1944	Storage and Handling of War Gases	30
3–2016	1943	Individual Protection Against Chemical Attack	28
4–156	1941	Railway Artillery—Emplacement and Firing of the 12-inch Mortar and 8-inch Gun	19
4–188	1942	The 37-mm Antiaircraft Gun Battery—Care of the Gun after Firing	29
4–196	1941	The Antiaircraft Searchlight Battery—Part II—Preparation for Use of Matériel, Orienting and Synchronizing	15
4–269	1942	The Antiaircraft 37-mm Gun Battery—Emplacement of Gun and March Order	13
4–585	1942	The Height Finder M1—Part I—Preparation for Action	16
4–586	1942	The Height Finder M1—Part II—Adjustment Prior to Operations	34
4–587	1942	The Height Finder M1—Part III—Drill	10
4–588	1942	The Height Finder M1—Part IV—March Order	10
4–605	1942	The Radio Set SCR–268—Part I—Assembly of the Mount	44
4–606	1942	The Radio Set SCR–268—Part II—Disassembly of the Mount and Packing of the Trailers	42
4–607	1942	The Radio Set SCR–268—Part III—Placing in Operation	16
4–608	1942	The Radio Set SCR–268—Part IV—Tracking Targets	11
4–609	1943	The Radio Set SCR–268—Part V—Orientation and Synchronization with the Director	31
4–610	1942	The Radio Set SCR–268—Part VI—Synchronization with the Searchlight	20
4–630	1943	The 12-inch Gun Battery, Barbette Carriage—Part I—Matériel and Personnel	29
4–631	1942	The 12-inch Gun Battery, Barbette Carriage—Part II—Breech Mechanisms	18
4–632	1943	The 12-inch Gun Battery, Barbette Carriage—Part III—Checks for Base Ring and Range Disc	27
4–633	1943	The 12-inch Gun Battery, Barbette Carriage—Part IV—Duties of the Ammunition Squad	16
4–635	1943	The 12-inch Gun Battery, Barbette Carriage—Part VI—Care and Maintenance	23
4–636	1943	The 12-inch Gun Battery, Barbette Carriage—Part VII—Firing	19
4–640	1943	Care and Maintenance of the 90-mm Antiaircraft Gun—Part I—Routine Inspection	18
4–641	1943	Care and Maintenance of the 90-mm Antiaircraft Gun—Part II—Regular Inspection	19
4–642	1943	Care and Maintenance of the 90-mm Antiaircraft Gun—Part III—Routine Checks	29
4–643	1943	Care and Maintenance of the 90-mm Antiaircraft Gun—Part IV—Orientation and Synchronization	22

TF No.	Year released	Title	Running time (minutes)
4-644	1943	Care and Maintenance of the 90-mm Antiaircraft Gun—Part V—Firing, Safety Precautions, and Maintenance after Firing	12
4-647	1943	Mechanisms of M5 and M6 Directors	16
4-655	1943	The Automatic Weapons Firing Unit—Part I—Going into Position	31
4-656	1943	The Automatic Weapons Firing Unit—Part II—March Order	24
4-657	1943	The Automatic Weapons Firing Unit—Part III—Preparation for Firing	25
4-658	1943	The Automatic Weapons Firing Unit—Part IV—Combat Firing Using the Director	15
4-659	1943	The Automatic Weapons Firing Unit—Part V—Combat Firing Unit, Using Forward Area Sights	20
4-660	1943	The Automatic Weapons Firing Unit—Part VI—Tests and Adjustments, Director M5	25
4-661	1943	The Automatic Weapons Firing Unit—Part VII—Care and Maintenance of Oil Gear Units	20
4-662	1943	The Automatic Weapons Firing Unit—Part VIII—Care and Maintenance of the Gun	31
4-663	1943	The Automatic Weapons Firing Unit—Part IX—Care and Maintenance of the Carriage	28
4-675	1943	The Three Point System of Identifying U. S. Cruisers	16
4-676	1943	The Three Point System of Identifying U. S. Destroyers	31
4-685	1942	Antiaircraft Mechanical Mathematics	17
4-692	1943	Antiaircraft Artillery Gun Directors M4 and M7—Part I—Setting up, Leveling, and Adjusting the Levels	15
4-693	1943	Antiaircraft Artillery Gun Directors M4 and M7—Part II—Care and Adjustment of the Tracking Telescopes	29
4-694	1943	Antiaircraft Artillery Gun Directors M4 and M7—Part III—Orienting and Synchronizing	11
4-695	1943	Antiaircraft Artillery Gun Directors M4 and M7—Part IV—Operation of Director for Antiaircraft Fire	20
4-696	1943	Antiaircraft Artillery Gun Directors M4 and M7—Part V—Fitting the Director for a Change of Ammunition	29
4-917	1942	Fire Control and Position Finding for Seacoast Artillery—Part I—Position Finding Systems	39
4-918	1942	Fire Control and Position Finding for Seacoast Artillery—Part II—Non-Standard Ballistic Conditions	26
4-919	1942	Fire Control and Position Finding for Seacoast Artillery—Part III—Computing and Setting Firing Data	33
4-920	1942	Fire Control and Position Finding for Seacoast Artillery—Part IV—Pointing Methods and Reference Numbers	22
4-921	1942	Fire Control and Position Finding for Seacoast Artillery—Part V—The M1 Plotting Board and M1 Range Correction Devices	40
4-922	1942	Fire Control and Position Finding for Seacoast Artillery—Part VI—The M1 Deflection Board	28
4-923	1942	Fire Control and Position Finding for Seacoast Artillery—Part VII—Dispersion, Errors, and Spotting Systems	14

TF No.	Year released	Title	Running time (minutes)
4-924	1942	Fire Control and Position Finding for Seacoast Artillery—Part VIII—The M3 Spotting Board	19
4-925	1942	Fire Control and Position Finding for Seacoast Artillery—Part IX—Fire Adjustment, the Magnitude Correction Method and Lateral Adjustment	27
4-926	1942	Fire Control and Position Finding for Seacoast Artillery—Part X—Fire Adjustment, the Bracketing Method	16
4-934	1943	Care and Maintenance of the 155-mm Gun—Part I—Routine Cleaning and Painting	17
4-935	1943	Care and Maintenance of the 155-mm Gun—Part II—Routine Disassembly and Brake Adjustment for Carriages M1917 and M1918	21
4-936	1943	Care and Maintenance of the 155-mm Gun—Part III—Routine Lubrication	20
4-947	1943	Antiaircraft Artillery, Gun Directors M4 and M7—Part VI—Care and Maintenance	18
4-948	1943	The 12-inch Gun Battery, Barbette Carriage—Part VIII—Checks for Pointing in Direction	15
4-989	1943	Barrage Balloon, Low Altitude Service and Equipment—Part I—The Cradle Bed	18
4-990	1943	Barrage Balloon, Low Altitude, Service and Equipment—Part IIa—Preparation for Inflation	23
4-997	1943	Barrage Balloon, Low Altitude, Service and Equipment—Part IIb—Inflation	15
4-998	1943	Barrage Balloon, Low Altitude, Service and Equipment—Part III—Mechanical Handling	19
4-1008	1943	Care and Maintenance of the 155-mm Gun—Part VI—Preparation of Ammunition for Firing	22
4-1009	1943	Care and Maintenance of the 155-mm Gun—Part VII—Checking the Cross Level on the Quadrant Sight	41
4-1010	1943	Care and Maintenance of the 155-mm Gun—Part VIII—Orienting the Panoramic Telescope M2A1 for Case II Pointing	20
4-1011	1943	Care and Maintenance of the 155-mm Gun—Part IX—Orienting the Panoramic Telescope M2A1 for Case III Pointing	50
4-1012	1943	Care and Maintenance of the 155-mm Gun—Part X—Checking and Adjusting Telescope Mount M6A1	24
4-1013	1943	Care and Maintenance of the 155-mm Gun—Part XI Orienting the Panoramic Telescope M8 for Case II Pointing	21
4-1014	1943	Care and Maintenance of the 155-mm Gun—Part XII—Orienting the Panoramic Telescope M8 for Case III Pointing	54
4-1015	1943	Care and Maintenance of the 155-mm Gun—Part XV—Care and Service after Firing	17
4-1078	1943	Sound Effects for Fire Adjustment—Exercise I—Minor Caliber Firing	11
4-1079	1943	Sound Effects for Fire Adjustment—Exercise II—Major Caliber Firing	11

TF No.	Year released	Title	Running time (minutes)
4–1087	1943	Barrage Balloon, Low Altitude, Service and Equipment—Part V—Tail Line Mooring	18
4–1102	1943	Principles of Radar Operation—Part I—General Principles	21
4–1103	1944	(CONFIDENTIAL)**	26
4–1106	1943	Care and Maintenance of the 155-mm Gun—Part IV—Preparation of the Bore, Breech and Firing Mechanism for Firing	40
4–1107	1943	Care and Maintenance of the 155-mm Gun—Part V—Preparation of the Carriage for Firing	22
4–1108	1943	Care and Maintenance of the 155-mm Gun M1917 and M1918—Part XVIII—Care and Maintenance of the Elastic Suspension	10
4–1109	1943	Barrage Balloon, Low Altitude, Service and Equipment—Part IV—Manual Handling	20
4–1110	1943	Barrage Balloon, Low Altitude, Cable Armament—Part I—Operation	20
4–1111	1943	Barrage Balloon, Low Altitude, Cable Armament—Part II—Service	25
4–1112	1943	Barrage Balloon, Low Altitude, Cable Armament—Part III—Parachutes	14
4–1113	1943	Barrage Balloon, Low Altitude, Rigging and Fabric Repair—Part I—Inspection and Field Repair	21
4–1114	1943	Barrage Balloon, Low Altitude, Rigging and Fabric Repair—Part II—Major Fabric Repair	27
4–1128	1943	Care and Maintenance of the 155-mm Gun—Part XIII—Care and Service During Firing	15
4–1129	1943	Care and Maintenance of the 155-mm Gun—Part XIV—Safety Precautions During Firing	61
4–1139	1943	Cal. .50 Antiaircraft Machine Gun—Part I—Disassembly and Assembly of Gun, Handling Ammunition	31
4–1144	1943	Care and Maintenance of the 90-mm Antiaircraft Gun—Part VI—Remote Control System M2	23
4–1145	1943	The 90-mm Antiaircraft Gun—Part I—Emplacement Using the Prime Mover	45
4–1146	1943	The 90-mm Antiaircraft Gun—Part II—Emplacement without Use of Prime Mover	30
4–1147	1943	The 90-mm Antiaircraft Gun—Part III—March Order	30
4–1148	1943	The 90-mm Antiaircraft Gun—Part IV—Technique of Antitank Firing	42
4–1149	1943	The 90-mm Antiaircraft Gun—Part V—Direct Fire Drill	23
4–1150	1943	Barrage Balloon, Low Altitude, Service and Equipment—Part VI—Midship Mooring	16
4–1151	1943	Barrage Balloon, Low Altitude, Service and Equipment—Part VII—Turning the Balloon and Storm Precautions	26
4–1156	1943	The Cal. .50 Antiaircraft Machine Gun—Part II—Care, Maintenance and Emplacement	26
4–1162	1943	Barrage Balloon, Gas—Part I—Hydrogen, Production and Principles	22
4–1163	1943	Barrage Balloon, Gas—Part II—Use and Safety Precautions	14

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TF No.	Year released	Title	Running time (minutes)
4–1177	1943	Barrage Balloon, Very Low Altitude—Part V—Flying Wire Assembly	16
4–1184	1943	Operating Barrage Balloons from Water-Borne Sites	29
4–1185	1943	Barrage Balloon, Very Low Altitude—Part II—Inflation and Bedding Down	22
4–1186	1943	Barrage Balloon, Very Low Altitude—Part III—Flying	17
4–1189	1943	The Radio Optical Height Finder SCR–547—Part I—Setting up the Equipment	24
4–1207	1943	Barrage Balloon, Very Low Altitude—Part I—Preparation of Site	14
4–1209	1943	The Radio Optical Height Finder SCR–547—Part II—Packing the Equipment	22
4–1214	1943	Barrage Balloon, Very Low Altitude—Part IV—Lethal Devices	12
4–1222	1943	The Antiaircraft Artillery Searchlight Section—Part I—Preparation for Action	42
4–1223	1943	The Antiaircraft Artillery Searchlight Section—Part II—March Order	24
4–1224	1944	The Antiaircraft Artillery Searchlight Section—Part III—Drill with SCR–268	26
4–1271	1944	Controlled Submarine Mines—Part II—Planting Control Buoys and Laying Shore Cable	29
4–1272	1943	Controlled Submarine Mines—Part III—Planting Ground Mines	25
4–1273	1943	Controlled Submarine Mines—Part IV—Planting Buoyant Mines	21
4–1274	1943	Controlled Submarine Mines—Part V—Preparing and Planting the Distribution Box	21
4–1275	1944	Controlled Submarine Mines—Part VI—Operation of the Mine Field	34
4–1276	1944	Controlled Submarine Mines—Part VII—Maintenance and Renovation of Underwater Equipment	44
4–1277	1944	Controlled Submarine Mines—Part I—Section I—Preparation of Ground Mine Underwater Equipment	47
4–1278	1944	Controlled Submarine Mines—Part I—Section II—Preparation of Buoyant Mine Underwater Equipment	19
4–1280	1944	The Multiple Machine Gun Mounts—Part I—Operation and Maintenance	39
4–1281	1943	The Automatic Weapons Firing Unit—Part XI—Adjustment of the M1 Oil Gear Unit	24
4–1292	1944	The Multiple Machine Gun Mounts—Part II—Drill and Firing	31
4–1293	1944	The Directors M9 and M10—Part I—Emplacement and March Order	33
4–1294	1944	The Directors M9 and M10—Part II—Orientation and Synchronization	13
4–1295	1944	The Directors M9 and M10—Part III—Operation With Height Finders	22
4–1305	1944	The 120-mm 4.7-inch Antiaircraft Gun—Part I—Going Into Position	37

TF No.	Year released	Title	Running time (minutes)
4–1306	1944	The 120-mm 4.7-inch Antiaircraft Gun—Part II—March Order	24
4–1307	1944	The 120-mm 4.7-inch Antiaircraft Gun—Part III—Preparation for Firing	31
4–1308	1944	The 120-mm 4.7-inch Antiaircraft Gun—Part IV—Inspection of Ammunition and Firing	23
4–1320	1944	(CONFIDENTIAL)**	40
4–1321	1944	The 12-inch Gun Battery—Part V—Safety Precautions	9
4–1323	1944	(CONFIDENTIAL)**	33
4–1324	1944	The Radio Set SCR–584—Part I—Emplacement and March Order	39
4–1325	1944	(CONFIDENTIAL)**	16
4–1326	1944	(CONFIDENTIAL)**	28
4–1363	1944	(CONFIDENTIAL)**	9
4–2010	1943	Care and Maintenance of the 155-mm Gun—Part XVI—Care and Maintenance of the M3 Carriage and Limber	55
4–2011	1943	Care and Maintenance of the 155-mm Gun—Part XVII—Maintenance of the Carriage and Limber, 155-mm Gun M1	45
4–2012	1943	Going into Position with the 155-mm Gun	23
5–12	1931	Map Reading	43
5–119	1940	River Crossing—Foot Bridge Uses	9
5–120	1940	River Crossing—Foot Bridge Construction	10
5–200	1941	Pioneer Equipment—Woodcutting Tools	10
5–201	1941	Pioneer Equipment—Manila Rope	7
5–202	1941	Pioneer Equipment—Hitches	8
5–203	1941	Pioneer Equipment—Knots and Bends	15
5–224	1941	Portable Barbed Wire Obstacles	10
5–237	1942	Portable Water Purification Unit M1940	26
5–268	1942	Ponton Rowing Drill	10
5–279	1942	Ten-ton Ponton Boat M1938	10
5–284	1942	Ten-ton Ponton Rafts	12
5–322	1942	Pneumatic Paving Breaker	24
5–565	1942	Repairs and Storage of Ten-ton Ponton Bridge Equipment	19
5–571	1942	Air Compressor and Air Tools—The Pneumatic Rock Drill M75	19
5–572	1942	Explosives and Demolitions—Demolition of Concrete Arch Bridges	8
5–573	1942	Explosives and Demolitions, Demolition of a Reinforced Concrete Deck Girder Bridge—Part I	6
5–597	1942	Explosives and Demolitions, Demolition of a Reinforced Concrete Deck Girder Bridge—Part II	9
5–598	1942	Explosives and Demolitions—Cutting by Explosives	8
5–615	1942	Portable Steel Bridge—Part I—The H–10 Portable Steel Bridge	19
5–620	1942	Portable Steel Bridge, Single Span—Equipage for H–20 Loading	10
5–623	1942	Air Compressor and Air Tools	21
5–645	1943	Camouflage—Individual Concealment (Color)	10

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TF No.	Year released	Title	Running time (minutes)
5-646	1942	Camouflage of the Bivouac Area (Color)	11
5-648	1943	Camouflage—Use of Artificial Materials	13
5-649	1943	Camouflage Principles (Color)	10
5-651	1943	Maintenance of Heavy Equipment—Parts I and II—The Engineer Tractor Dozer, Daily and Weekly Maintenance	31
5-697	1943	Air Compressor and Air Tools—The Pneumatic Clay Digger	14
5-698	1943	Air Compressor and Air Tools—Part V—The Pneumatic Wood Borer	9
5-699	1943	Air Compressor and Air Tools—Part VIII—The Pneumatic Nail Driver	17
5-954	1943	Enemy Booby Traps	27
5-955	1943	Air Compressor and Air Tools—Part VI—The Pneumatic Circular Saw	20
5-956	1943	Air Compressor and Air Tools—Part VII—The Pneumatic Chain Saw	16
5-961	1943	Camouflage for All Arms	30
5-962	1942	Anti-Vehicle Obstacles, Elementary	47
5-1066	1943	Ten-ton Ponton Trestles and Abutments	13
5-1067	1943	Ten-ton Ponton Hinge Span	12
5-1068	1943	Maintenance and Operation of the Ten-ton Ponton Bridge	10
5-1152	1943	Carpentry—Part I—Measuring, Marking, and Leveling	12
5-1153	1943	Carpentry—Part II—Chopping and Driving	13
5-1154	1943	Carpentry—Part III—Sawing and Boring	16
5-1155	1943	Carpentry—Part IV—Planing and Chiseling	14
5-1169	1943	Military Roads and Runways—Part I—Clearing, Grubbing, and Rock Work	14
5-1181	1943	Infantry Support Raft	17
5-1190	1943	Military Roads and Runways—Part II—Bases and Untreated Surfaces	10
5-1192	1943	Military Roads and Runways—Part IV—Soil, Cement Surfaces	12
5-1193	1943	Military Roads—Part I—Road Expedients	21
5-1194	1943	Military Roads—Part II—Drainage	12
5-1195	1943	Military Roads—Part III—Road Repair and Maintenance	9
5-1196	1943	Military Roads—Part IV—Reconnaissance for Road Location	10
5-1197	1943	Military Roads—Part V—Sub-grade Preparation	9
5-1198	1943	Military Roads—Part VI—Gravel and Rock Surfaces	8
5-1211	1943	Use and Care of Pneumatic Tools	16
5-1212	1943	Detection and Neutralization of Enemy Mines	17
5-1221	1943	Pioneer Technique in Assault of Fortified Positions	15
5-1226	1943	The Double Apron Fence	15
5-1242	1943	Assault Boat River Crossing	17
5-1270	1944	Map Reading, British Conventional Signs and Symbols	21
5-1301	1944	Fundamentals of Demolitions	36
5-1332	1944	Bailey Bridge—Part I—Basic Construction	25
5-1333	1944	Bailey Bridge—Part II—Modified Construction	18
5-1354	1944	Pneumatic Ponton Bridge M3—Part I—Construction	19
5-1355	1944	Pneumatic Ponton Bridge M3—Part II—Reinforcement	19
5-1361	1944	Timber Trestle Bridge	20

TF No.	Year released	Title	Running time (minutes)
5–1364	1944	Steel Treadway Bridge M2—Part I—Floating Bridge Construction	26
5–1365	1944	Steel Treadway Bridge M2—Part II—Raft and Fixed Bridge Construction	12
5–1377	1944	Explosives and Demolitions, Bangalore Torpedo	9
5–1403	1944	Floating Bailey Bridge	26
5–2018	1943	Antitank Mine Doctrine and Methods—Part III—Employment of Antipersonnel Mines, Sections I and II	44
5–2020	1943	Deliberate Mine Fields	43
5–2021	1943	Location and Construction of Road Blocks	11
5–2039	1944	Passage of Mine Fields—Part I—For All Arms	28
5–2040	1944	Passage of Mine Fields—Part II—For Specialists	28
6–103	1941	Truck-Drawn Units—Reconnaissance and Preparation of Routes	11
6–104	1941	Truck-Drawn Units—Difficult Terrain	29
6–105	1941	Truck-Drawn Units—Stream Crossings	19
6–106	1941	Truck-Drawn Units—Movement of Disabled Vehicles	10
6–111	1940	Preparation of Fire—The Mil Relation	11
6–112	1940	Preparation of Fire—Instruments	9
6–124	1941	The 155-mm Howitzer M1918A1 (Truck-Drawn), The Section—Duties at the Gun Park, Care on the March	15
6–125	1941	The 155-mm Howitzer M1918A1 (Truck-Drawn), The Section—Duties at the Firing Position, Firing Duties	27
6–126	1941	The 155-mm Howitzer M1918A1 (Truck-Drawn), The Section—Duties at March Order	10
6–230	1941	The 240-mm Howitzer—Personnel and Equipment	46
6–231	1941	The 240-mm Howitzer—Service of the Piece	18
6–232	1941	The 240-mm Howitzer—Displacement	32
6–611	1942	The 105-mm Howitzer—Part I—Mechanical Functioning of the Howitzer	37
6–612	1942	The 105-mm Howitzer—Part II—Service of the Piece	26
6–613	1942	The 105-mm Howitzer—Part III—The Firing Battery on the March and in Position	27
6–684	1942	The 105-mm Howitzer Battalion (Triangular Division) in Reconnaissance and Occupation of Position in Supporting an Attack	63
6–940	1943	Technique of Fire Direction, 105-mm Howitzer Battalion—Part I—The Observed Fire Chart	42
6–941	1943	Technique of Fire Direction, 105-mm Howitzer Battalion—Part II—The Surveyed Firing Chart and Determining and Application of Correction	27
6–942	1943	Technique of Fire Direction, 105-mm Howitzer Battalion—Part III—The Handling of Prearranged Fire and Use of Meteorological Data	30
6–978	1942	Field Artillery Against Tanks	10
6–994	1943	The 105-mm Howitzer Battery—Organization of Position	34
6–1072	1943	The 155-mm Gun M1—Part I—Nomenclature of the Piece	26
6–1073	1943	The 155-mm Gun M1—Part II—Maintenance and Lubrication of the Piece	15
6–1074	1943	The 155-mm Gun M1—Part III—Boresighting, Panoramic Telescope and the Gunners Quadrant	18

TF No.	Year released	Title	Running time (minutes)
6–1075	1943	The 155-mm Gun M1—Part IV—Ammunition	9
6–1076	1943	The 155-mm Gun M1—Part V—Organization of Personnel and Duties in Firing	39
6–1077	1943	The 155-mm Gun M1—Part VI—March Order	17
6–1201	1943	Employment of a Field Artillery Battery Against Tanks	26
6–1227	1943	Laying the Field Artillery Battery	15
6–1379	1944	The 155-mm Howitzer M1A1 and 4.5-inch Gun M1—Part I —Preparation for Action and March Order	25
6–1380	1944	The 155-mm Howitzer M1A1 and 4.5-inch Gun M1—Part II—Duties of Cannoneers in Firing	21
7–29	1941	Employment of Machine Guns in Defense	26
7–143	1941	Infantry Drill—The Squad	10
7–144	1941	Infantry Drill—The Platoon	14
7–151	1941	Parachute Training in German Army	15
7–228	1942	Battle Formation—The Rifle Platoon	43
7–233	1942	Determining Direction in the Field	9
7–234	1942	Use of Natural Cover and Concealment	18
7–248	1941	Instruction of the Soldier, Dismounted, Without Arms-Position and Facings	22
7–249	1941	Instruction of the Soldier, Dismounted, Without Arms—Steps and Marchings	22
7–250	1941	The 60-mm Mortar—Mechanical Training	20
7–251	1941	The 60-mm and 81-mm Mortars—Sights and Sight Setting	28
7–265	1942	Sand Table—Part I—Preparation	27
7–266	1942	Sand Table—Part II—Use	20
7–275	1942	Operations of a Reconnaissance Patrol at Night	39
7–280	1942	Reconnaissance Scout	10
7–295	1942	Military Training	58
7–318	1942	Platoon Scouts	11
7–393	1942	Battle Formation—Part I—The Rifle Squad	32
7–560	1942	School of the Soldier, Manual of Arms—Part I—Nomenclature for Drill, Movement from Order Arms	29
7–561	1942	School of the Soldier, Manual of Arms—Part II—Nomenclature for Drill, Movements from Port Arms, Other Movements	17
7–637	1942	Know Your Enemy—Airborne Troops	22
7–652	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training—Part II—Positions	27
7–668	1942	The 37-mm Antitank Gun M3—Action and Service of the Piece	38
7–677	1942	Ski Equipment	21
7–678	1942	Snow Camping Above Timberline	42
7–679	1942	Snow Camping in Timber	24
7–680	1942	Ski Safety	21
7–681	1942	Ski First Aid and Emergency Repair of Equipment	41
7–682	1942	The Ski Sled	20
7–683	1942	Ski Mountaineering	36
7–969	1943	Rifle Marksmanship with M1 Rifle, Preparatory Training—Part I—Sighting and Aiming	33
7–993	1943	Infantry Hasty Field Fortifications—Part I—Individual Intrenchments	22

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7-1061	1943	A Daylight Reconnaissance Patrol	36
7-1062	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training—Part IV—Rapid Fire	28
7-1094	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training—Part III—Trigger Squeeze	20
7-1100	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training—Part V—Elevation and Windage	34
7-1101	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training—Part VI—Zeroing and Use of the Score Book	27
7-1131	1943	Infantry Hasty Field Fortifications—Part II—Emplacement of Light and Heavy Cal. .30 Machine Guns	20
7-1141	1943	Infantry Hasty Field Fortifications—Part III—Emplacement of 60-mm and 81-mm Mortars	10
7-1142	1943	Infantry Hasty Field Fortifications—Part IV—Emplacement of the 37-mm Antitank Gun	12
7-1161	1943	Street Fighting	15
7-1182	1943	The Rifle Squad and Platoon in Defense—Part I—Intrenchment of the Rifle Squad	14
7-1220	1943	Fire and Movement	17
7-1257	1944	Employment of the Light Machine Gun in Attack	20
7-1263	1943	The Bayonet Fighter	21
7-1266	1944	Infantry Weapons and Their Effect	30
7-1279	1944	Employment of Heavy Machine Guns in Attack	24
7-1303	1944	Stream Crossing Expedients—Part I—Crossing of Personnel	16
7-1304	1944	Stream Crossing Expedients—Part II—Flotation of Weapons, Equipment, and Vehicles	15
7-1319	1944	House to House Fighting	28
7-1362	1944	The Antitank Rifle Grenade	20
7-2023	1943	Interior Guard Duty—The Sentinel	15
7-2051	1944	The Soldier in Bivouac	32
7-2055	1944	Combat Patrols	33
8-155	1941	Personal Hygiene	36
8-953	1943	Malaria—Cause and Control	25
8-999	1943	The Fly	16
8-1000	1943	The Louse	20
8-1174	1943	Purification of Water	18
8-1179	1943	Military Sanitation—Disposal of Human Waste	18
8-1180	1943	First Aid for Chemical Casualties	24
8-1238	1943	Sex Hygiene	24
8-1288	1944	Louse-Borne Diseases	19
8-1297	1944	Personal Health in Snow and Extreme Cold	19
8-1343	1944	Care of the Sick and the Injured—Part I—Morning Care	7
8-1344	1944	Care of the Sick and the Injured—Part II—Evening Care	7
8-1345	1944	Care of the Sick and the Injured—Part III—Post Operative Care	13
8-1346	1944	Care of the Sick and the Injured—Part IV—Temperature, Pulse, and Respiration	15
8-1366	1944	Hypodermic Needles and Syringes—Their Care and Function	16
8-1378	1944	Clinical Malaria	26

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8–1382	1944	Care of the Sick and the Injured, Surgical Dressings	20
8–1383	1944	Care of the Sick and the Injured, Enemas	20
8–1388	1944	The Heart and Circulation	10
8–1389	1944	Mechanism of Breathing	11
8–1390	1944	Digestion of Foods	10
8–1391	1944	Control of Body Temperature	11
8–1392	1944	The Work of the Kidneys	11
8–1393	1944	The Nervous System	11
8–1394	1944	The Eyes and Their Care	11
8–1395	1944	Endocrine Glands	11
8–1396	1944	Body Defenses against Diseases	11
8–2047	1944	First Aid for Battle Injuries	24
8–2049	1944	First Aid for Non-Battle Injuries	29
8–2057	1944	Personal Health in the Jungle	15
8–2060	1944	Pick Up	38
9–30	1940	Elementary Principles of the Recoil Mechanism	12
9–31	1940	Recoil Mechanism—French 75-mm Gun M1897	11
9–113	1940	Machining the Shell for 3-inch Antiaircraft Gun	21
9–114	1940	Loading, Assembling and Packing Ammunition for 3-inch Antiaircraft Gun	20
9–169	1941	Electrical System of the Diesel Tractractor	9
9–170	1941	Fuel System of the Diesel Tractractor	8
9–171	1941	Engine of the Diesel Tractractor	20
9–172	1941	Power Train of the Diesel Tractractor	32
9–173	1941	Track and Suspension System of the Diesel Tractractor	19
9–614	1942	The Heavy Wrecking Truck M1—Series II—Operation and Use	23
9–618	1942	Unexploded Bombs	43
9–960	1943	Gun, Automatic, 40-mm, M1—Principles of Operation	25
9–970	1943	Care and Maintenance of Pneumatic Tires—Part I—Tire Designs and Functions	11
9–971	1943	Care and Maintenance of Pneumatic Tires—Part II—Preventive Maintenance	15
9–972	1943	Care and Maintenance of Pneumatic Tires—Part III—Removing and Replacing Wheels	9
9–973	1943	Care and Maintenance of Pneumatic Tires—Part IV—Mounting and Dismounting Tires with Full Drop-Center Rims	14
9–974	1943	Care and Maintenance of Pneumatic Tires—Part V—Mounting and Dismounting Tires with Semi Drop-Center and Flat Base Rims	18
9–975	1943	Care and Maintenance of Pneumatic Tires—Part VI—Tire Repairs	12
9–976	1943	Care and Maintenance of Pneumatic Tires—Part VII—Mounting and Dismounting Combat Tires	20
9–977	1943	Care and Maintenance of Pneumatic Tires—Part VIII—Bullet Resisting Tubes	9
9–986	1943	Ordnance Service, the Medium Maintenance Company—Part I—Organization	11
9–987	1943	Ordnance Service, the Medium Maintenance Company—Part II—March and Bivouac	7

TF No.	Year released	Title	Running time (minutes)
9-988	1943	Ordnance Service, the Medium Maintenance Company—Part III—Service Operations	8
9-995	1943	Tank Transporter M19—Part I—Function of Vehicle	22
9-996	1943	Tank Transporter M19—Part II—Evacuation Operations	20
9-1001	1943	Hydramatic Transmission—Part I—Theory and Principles of Operation, Fluid Coupling and Gear Train	26
9-1002	1943	Hydramatic Transmission—Part II—Theory and Principles of Operation, Automatic Shifting Unit	15
9-1003	1943	Hydramatic Transmission—Part III—Removal and Installation, Light Tank M5	15
9-1004	1943	Hydramatic Transmission—Part IV—Maintenance in Light Tank M5	24
9-1022	1943	The Gyro-Stabilizer Gun Mount—Part I—Principles of Operation	30
9-1023	1943	The Gyro-Stabilizer Gun Mount—Part II—Maintenance	35
9-1091	1943	Gun, Automatic, 37-mm, M1A2—Principles of Operation	20
9-1092	1943	Gun, Automatic, 37-mm, M4—Part I—Principles of Operation	28
9-1120	1943	The 20-mm Automatic Gun M2—Part I—Principles of Operation	22
9-1122	1943	Military Optical Instruments—Part III—Observation and Measuring Instruments	14
9-1123	1943	Thompson Submachine Gun, Cal. .45, M1928A1—Part I—Principles of Operation	23
9-1124	1944	Howitzer, Pack, 75-mm, M1A1, and Carriages M1 and M8—Principles of Operation	24
9-1126	1943	The Half Track Vehicle—Part I—Care and Maintenance of Endless Band Tracks and Bogie Wheels	29
9-1127	1943	The Half Track Vehicle—Part III—Removal and Installation of Bogie Wheels	13
9-1167	1943	Military Optical Instruments—Part I—Optical Principles	10
9-1168	1943	Military Optical Instruments—Part II—Sighting Instruments	13
9-1172	1943	U. S. Rifle, Cal. .30, M1—Principles of Operation	15
9-1205	1943	Rifle, Automatic, Cal. .30, Browning M1928A1—Principles of Operation	16
9-1206	1943	Carbine, Cal. .30, M1—Principles of Operation	14
9-1213	1943	The Synchromesh Transmission—Principles of Operation	25
9-1218	1943	The Oil Filter Goes to War	26
9-1243	1943	Directors M5 and M6—Part I—Principles of Operation	17
9-1245	1943	Vacuum Power Brakes—Principles of Operation	14
9-1246	1943	Hydrovac Power Brakes—Principles of Operation	9
9-1247	1943	Directors M5 and M6—Part II—Torque Amplifier, Principles of Operation	21
9-1258	1943	Lubrication of Military Vehicles—Part I—Principles of Lubrication	25
9-1259	1943	Recoil Mechanisms, Principles of Operation—Part I—Hydrospring Type	9
9-1260	1943	Recoil Mechanisms, Principles of Operation—Part II—Hydropneumatic Type	12
9-1264	1944	The Automotive Clutch—Principles of Operation	9

TF No.	Year released	Title	Running time (minutes)
9–1268	1944	The Bevel Gear Differential—Principles of Operation	12
9–1269	1944	The Automotive Transmission—Principles of Operation	20
9–1282	1944	Automotive Gears—Principles of Operation	20
9–1283	1943	Servicing the Zero-Lash Hydraulic Valve Lifter	26
9–1284	1944	The Planetary Gear Train—Principles of Operation	25
9–1285	1944	The Controlled Differential—Principles of Operation	21
9–1286	1944	Elementary Principles of Torque	16
9–1298	1944	Field Repair of Gun, 90-mm, M1, and Mount, Gun, Anti-aircraft, 90-mm, M1A1—Part I	23
9–1299	1944	Field Repair of Gun, 90-mm, M1, and Mount, Gun, Anti-aircraft, 90-mm, M1A1—Part II	23
9–1300	1944	Field Repair of Gun, Automatic, 40-mm, M1 and Carriage, Gun, 40-mm, M2, Antiaircraft	21
9–1316	1944	The Manometer Test	31
9–1318	1944	Beware—Butterfly Bomb	29
9–1328	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW, 353—Part I—First Echelon Maintenance	26
9–1329	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW, 353—Part II—Second Echelon Maintenance	23
9–1340	1944	The 57-mm Gun M1 and Gun Carriage M1A3—Principles of Operation	30
9–1356	1944	The 90-mm Gun, M1A1, Principles of Operation—Part I—	29
9–1357	1944	The 90-mm Gun, M1A1, Principles of Operation—Part II—Recoil Mechanism	21
9–1358	1944	Packaging of Matériel for Oversea Shipment—Part I—Cleaning, Preserving, and Wrapping	30
9–1359	1944	Preparation of Matériel for Oversea Shipment—Part II—Packing and Boxing	29
9–1367	1944	Gun, 120-mm, Antiaircraft M1, Principles of Operation—Part I—Section 1—Functions and Operations—Section II—The Percussion Mechanism	30
9–1368	1944	Gun, 120-mm, Antiaircraft M1, Principles of Operation—Part II—Operation of the M9 Power Rammer	10
9–1371	1944	Internal Combustion Engine, Principles of Operation	13
9–1374	1944	Preparation of Matériel for Oversea Shipment—Part III—Crating	31
9–1376	1944	The Oilgear Hydraulic Traversing Mechanism—Principles of Operation	21
9–1401	1944	The 90-mm Gun M1A1, Principles of Operation—Part III—The Spring Rammer	10
9–2007	1943	Disposal of Unusable Ammunition and Explosives—Part I—General Principles and Disposal at Sea	10
9–2008	1943	Disposal of Unusable Ammunition and Explosives—Part II—Disposal by Burning	26
9–2009	1943	Disposal of Unusable Ammunition and Explosives—Part III—Disposal by Detonation	23
9–2026	1943	Care and Use of Hand Tools—Part I—Wrenches	19
9–2027	1943	Care and Use of Hand Tools—Part II—Pliers and Screw Drivers	14
9–2028	1943	Care and Use of Hand Tools—Part III—Chisels	12
9–2029	1943	Care and Use of Hand Tools—Part IV—Hammers	11

TF No.	Year released	Title	Running time (minutes)
9-2030	1943	Care and Use of Hand Tools—Part V—Bars, Punches and Drifts	14
9-2031	1943	Care and Use of Hand Tools—Part VI—Hacksaws	18
9-2038	1944	Gun, Automatic, 20-mm, M1 and AN-M2—Part II—Malfunctions	21
9-2041	1944	Gun, Automatic, 37-mm, M4—Part II—Malfunctions	24
9-2045	1944	Field Repair of Gun, 155-mm, M1A1 and Carriage, Gun, 155-mm, M1	31
9-2046	1944	Field Repair of Howitzer, 105-mm, M2A1, and Carriage, Howitzer, 105-mm, M2	25
9-2050	1944	Howitzer, 105-mm, M2A1, and Carriage M2—Principles of Operation	21
9-2052	1944	Handling and Transporting Aerial Bombs—Part I—100, 250, and 500 Pound Bombs	35
9-2053	1944	Handling and Transporting Aerial Bombs—Part II—1,000, 2,000, and 4,000 Pound Bombs	25
9-2058	1944	Fundamentals of Artillery Weapons—Part I—Types and Components of Cannon	28
9-2059	1944	Fundamentals of Artillery Weapons—Part II—Types and Components of Carriages	22
9-2064	1944	Air Brakes—Principles of Operation	25
9-2065	1944	Hydraulic Brakes—Principles of Operation	24
9-2066	1944	Electric Brakes—Principles of Operation	13
9-3000	1943	Gun, Tank, 75-mm, M3—Theory and Principles of Operation	20
10-158	1941	Diesel Engines—Principles, Operation and Application	16
10-166	1941	Gasoline Motors	17
10-291	1942	Automotive Trouble Shooting—Part I—Functions of the Fuel and Ignition Units	14
10-299	1942	Automotive Trouble Shooting—Part XIII—Hydraulic Brakes	27
10-300	1942	Automotive Trouble Shooting—Part XV—The Clutch	21
10-301	1942	Automotive Trouble Shooting—Part XVI—Drive Shaft and Axle	28
10-319	1942	Automotive Trouble Shooting—Part IX—Cooling System Troubles (Automatic)	32
10-376	1942	Automotive Trouble Shooting—Part II—The Cranking System	14
10-377	1942	Automotive Trouble Shooting—Part III—The Fuel System, The Engine Will Not Start	13
10-395	1943	Automotive Trouble Shooting—Part V—The Fuel System at Various Speeds	16
10-396	1942	Automotive Trouble Shooting—Part VI—The Ignition System at Various Speeds	21
10-568	1943	Automotive Trouble Shooting—Part VII—Engine Lacks Power	17
10-570	1942	Automotive Trouble Shooting—Part X—Engine Tune-Up	62
10-593	1942	Automotive Trouble Shooting—Part XIb—Spring and Shock Absorbers	21
10-594	1943	Automotive Trouble Shooting—Part XIc—Section I—The Steering System	11

TF No.	Year released	Title	Running time (minutes)
10-595	1942	Automotive Trouble Shooting—Part XII—The Lighting System	20
10-596	1942	Automotive Trouble Shooting—Part XVII—Transmission and Transfer Care	19
10-638	1943	Automotive Trouble Shooting—Part XIV—Front End Alignment	18
10-639	1942	The Spark Plug	17
10-654	1942	Motorcycle Driver Training—Part I—Description and Function	11
10-929	1942	Hand Measuring and Power Tools—Operation and Care of Portable and Bench Grinders	18
10-930	1942	Hand Measuring and Power Tools—Portable Electric Drills	19
10-931	1942	Hand Measuring and Power Tools—Electric Valve Grinding Tools	29
10-932	1942	Hand Measuring and Power Tools—Care and Use of Files	24
10-933	1942	The Use and Abuses of Twist Drills	27
10-980	1943	Automotive Trouble Shooting—Part XIc—Section II—Chevrolet 4 x 4 and G.M.C. 6 x 6 Steering System Adjustments	16
10-981	1943	Automotive Trouble Shooting—Part XIc—Section III—Dodge ½-ton 4 x 4 Steering Gear Adjustments	10
10-1089	1943	Motorcycle Driver Training—Part II—Basic Driving	11
10-1104	1943	The M1937 Field Range—Part I—Range Equipment and the Fire Unit	17
10-1105	1943	The M1937 Field Range—Part II—Cleaning and Maintenance	17
10-1133	1943	The Army Cook—Part I—Meat Cutting Tools and Equipment	20
10-1134	1943	The Army Cook—Part II—Cutting a Hindquarter of Beef	14
10-1135	1943	The Army Cook—Part III—Cutting a Forequarter of Beef	17
10-1136	1943	The Army Cook—Part IV—Cutting Lamb	14
10-1137	1943	The Army Cook—Part V—Cutting Veal and Pork	13
10-1138	1943	The Army Cook—Part VI—Cooking and Carving of Meat	20
10-1170	1943	Quartermaster Mobile Laundries—Part I—Setting Up the Equipment	22
10-1171	1943	Quartermaster Mobile Laundries—Part II—Operation	16
10-1202	1943	Baking in the Field—Part I—M1942 Field Baking Unit	29
10-1203	1943	Baking in the Field—Part II—M1942 Field Baking Unit without Gasoline	30
10-1208	1943	Gasoline and Oil Supply	23
10-1215	1943	Rations in the Combat Zone—Part II—Unit Messing	16
10-1216	1943	Rations in the Combat Zone—Part III—The "C" Ration	10
10-1237	1943	Rations in the Combat Zone—Part I—Fighting Food	10
10-1239	1943	Loading of Motor and Rail Cargoes—Part I—Box Cars	16
10-1240	1943	Loading of Motor and Rail Cargoes—Part II—Flat Cars	15
10-1241	1943	Loading of Motor and Rail Cargoes—Part III—Trucks	13
10-1256	1943	Training War Dogs—Basic Exercises	21
10-1291	1944	Conservation of Food	16
10-2054	1944	First Echelon Maintenance for Motor Vehicles	21
11-168	1941	The Basic Principles of Skiing	38
11-177	1942	Basic Signal Communication—Field Wire Splices	21

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11-178	1941	Basic Signal Communication—Field Wire Ties	9
11-184	1941	Conduct of Physical Training	30
11-205	1942	Safeguarding Military Information—Cryptographic	21
11-225	1941	Interrogation of Prisoners	37
11-235	1942	Articles of War	47
11-257	1941	Care and Maintenance of Tapered Roller Bearings	31
11-262	1942	Point Control of Traffic	26
11-274	1941	Pistol Bullseyes	20
11-296	1941	Techniques and Mechanics of Arrest and Search of Persons	69
11-297	1942	Basic Signal Communication—Field Wire Line Construction	20
11-298	1942	The Mitchell Camera	17
11-321	1942	Combat Counter Intelligence	20
11-324	1942	Safeguarding Military Information	12
11-382	1942	Know Your Enemy	44
11-383	1942	Friend or Foe	55
11-397	1942	Basic Signal Communication—Field Wire Laying Equipment	20
11-551	1942	The Motor Vehicle Driver—Responsibility, Nomenclature, Fire Regulations, Accident Prevention	25
11-552	1942	The Motor Vehicle Driver—Hand Signals, Road Rules and Regulations	13
11-553	1942	The Motor Vehicle Driver—Elementary Driving Instructions and Inspection	25
11-554	1942	The Motor Vehicle Driver—Difficult Driving	18
11-555	1942	The Motor Vehicle Driver—Traction Aids and the Winch	27
11-556	1942	The Motor Vehicle Driver—Map Reading	9
11-557	1942	The Motor Vehicle Driver—Marching and Night Driving	21
11-559	1942	The Motor Vehicle Driver—Loading, Trouble Shooting, Reports, and Vehicle Abuse	27
11-590	1942	Climbing and Working on Poles	15
11-621	1942	Care and Release of Pigeons in the Field	10
11-622	1942	Electricity and Magnetism—Part I—Elements of Electricity	14
11-629	1942	Radio Set SCR-270—Locating and Reporting Targets	18
11-671	1943	Message Center Procedure—Part I—Outgoing Messages	19
11-951	1943	Pole Line Construction—Part I—Erecting Telephone Poles	18
11-952	1943	Pole Line Construction—Part II—Installation of Cross Arms	9
11-968	1943	Pole Line Construction—Part III—Installation of Special Cross Arms	13
11-1064	1943	Message Center Procedure—Part II—Incoming Messages	10
11-1069	1943	Pole Line Construction—Part IV—Fundamentals of Guying	10
11-1070	1943	Pole Line Construction—Part V—Installation of Anchors	9
11-1071	1943	Pole Line Construction—Part VI—Installation of Guys	10
11-1082	1943	Oscilloscope Target Interpretation	13
11-1088	1943	Pole Line Construction—Part VII—Stringing Open Wires	18
11-1159	1943	Field Wire Boom Equipment	21
11-1187	1943	Electricity and Magnetism—Part III—Voltaic Cell, Dry Cell and Storage Battery	18
11-1188	1943	Frequency Meter SCR-211	18

TF No.	Year released	Title	Running time (minutes)
11-1199	1943	Use of Field Telephone	16
11-1200	1943	Electricity and Magnetism—Part II—Ohm's Law	19
11-1219	1943	Electricity and Magnetism—Part IV—Charging Storage Batteries	16
11-1228	1943	Teletypewriter Sets EE-97a and EE-98a—Part I—Field Installation	14
11-1229	1943	Teletypewriter Sets EE-97a and EE-98a—Part II—Field Testing	15
11-1230	1943	Teletypewriter Sets EE-97a and EE-98a—Part III—AC Installation	10
11-1234	1943	Telephone Switchboard—Operating Procedures	16
11-1317	1944	Installation of Field Cable	20
11-1342	1944	Tuning Transmitters—Part I—Setting Frequency	16
11-1384	1944	Loading and Unloading Poles	21
11-1397	1944	Facsimile Equipment RC-120—Part I—Theory and Description	20
11-1398	1944	Facsimile Equipment RC-120—Part II—Operation	23
11-1400	1944	Converter M-209	32
11-2044	1944	Radio Transmission Security	29
11-2061	1944	Use of Voice Radio	28
11-2062	1944	Theory of Simplex and Phantom Circuits—Part I—Balanced Conditions	14
11-2063	1944	Theory of Simplex and Phantom Circuits—Part II—Unbalanced Conditions	19
11-2068	1944	Defense Against Radio Jamming	20
11-2069	1944	Basic Principles of Frequency Modulation	31
12-578	1942	Soldiers in the Making—Classification of Enlisted Men	13
12-1157	1943	Visual Classification Test (Silent Version)	16
12-1158	1943	Visual Classification Test (Sound Version)	16
15-992	1943	Administration of Military Justice and Courts-Martial	45
16-2037	1944	For God and Country	45
17-264	1941	Armored Force Drill—The Light Tank Crew	12
17-314	1942	Half-Track Driving—Advanced	16
17-576	1942	Tank Driving—Advanced	22
17-617	1942	Motorcycle Driving—Advanced	13
17-963	1943	Thompson Submachine Gun—Part I—Functioning	5
17-964	1943	Thompson Submachine Gun—Part II—Assembly and Disassembly	11
17-965	1943	Thompson Submachine Gun—Part III—Manual of Arms	7
17-966	1943	Thompson Submachine Gun—Part IV—Loading and Firing	4
17-967	1943	Thompson Submachine Gun—Part V—Marksmanship	9
17-1006	1943	Attack and Defense of Road Blocks	20
17-1083	1943	The Tank Platoon—Bivouac and Outpost Security	34
17-1085	1943	The Tank Platoon—The Advance Guard	33
17-1086	1943	Field Expedients, Track-Laying Vehicles	27
17-1160	1943	Recognition of AFV—Covenanter and Crusader	10
17-1204	1943	Vehicular Firing, M4 Medium Tank—Part I—Preparing for Action and Going Out of Action	22
17-1225	1943	Vehicular Firing, M4 Medium Tank—Part II—Sighting and Aiming	18
17-1262	1944	Vehicular Firing—M5 Light Tank	26

TF No.	Year released	Title	Running time (minutes)
17-1322	1944	Combat Firing by the Individual Tank	17
17-1330	1944	Vehicular Firing, 75-mm Howitzer on M8 Motor Carriage—Part I	17
17-1331	1944	Vehicular Firing, 75-mm Howitzer on M8 Motor Carriage—Part II	14
17-1335	1944	Recognition of A.F.V.'s "The Tiger" Pz. Kw. VI, German Heavy Tank	8
17-1336	1944	Recognition of A.F.V.'s German S.D.K.F.2, 222, Including the 221 and 223—4-wheeled Armored Car	9
17-1337	1944	Recognition of A.F.V.'s German S.D.K.F.2, 231 and 232	8
17-1338	1944	Recognition of A.F.V.'s The American Sherman Mark IV Tank	10
17-2042	1944	The Tank Platoon—Fundamentals of Attack	24
18-1116	1943	Employment of Secondary Weapons Against Tanks	16
18-1166	1943	The Antitank Rocket M6—Methods of Use	27
18-1232	1944	Tank Destroyer Marksmanship—Part I—The Target	12
18-1233	1944	Tank Destroyer Marksmanship—Part II—The Sight and the Controls	24
18-2013	1943	Direct Fire, the Tank Destroyer Section	16
18-2043	1944	The Tank Destroyer Platoon in Combat	37
19-1290	1944	Riot Control	35
19-1360	1944	Handling Prisoners of War	28
19-2032	1943	Guarding Against Sabotage	45
19-2034	1943	A.W.O.L. and Desertion	39
19-2036	1943	Control of Individuals in the Field	25
21-1007	1943	Snafu	12
21-1018	1943	Keep It Clean	14
21-1019	1943	Crack that Tank!	14
21-1020	1943	How to Get Killed—In One Easy Lesson	11
21-1021	1943	Wise Guy	16
21-1024	1943	Kill or Be Killed	10
21-1026	1943	On Your Toes	15
21-1027	1943	Latrinograms	12
21-1028	1943	Heroes	6
21-1029	1943	On Your Own	15
21-1121	1944	Elementary Tactics of Life Saving	11
21-1244	1944	Abandon Ship	29
21-1265	1944	Preparation for Oversea Movement	35
21-1289	1943	Locating the Enemy	17
21-1370	1944	Camouflage—Movement of Individuals and Small Units	13
21-1375	1944	Time Out. (Fighting Men Series.)	18
21-2014	1943	Baptism of Fire	37
21-2015	1943	Secret Weapon	16
21-2025	1943	Scouting and Patrolling—Part III—Mechanized Patrol	62
21-2035	1943	Security on the March—Mechanized Units	25
21-2048	1944	Military Courtesy	22
21-2056	1944	By Your Command	26
21-2067	1944	Introduction to the Army	39
25-152	1941	Ignition and the Spark Plug	21
25-333	1941	The Engine Lathe—Rough Turning Between Centers	15
25-334	1941	The Engine Lathe—Turning Work of Two Diameters	14

TF No.	Year released	Title	Running time (minutes)
25-335	1941	The Engine Lathe—Cutting a Taper with the Compound Rest and with the Taper Attachment	10
25-336	1942	The Engine Lathe—Drilling, Boring, and Reaming Work Held in Chuck	10
25-337	1942	The Engine Lathe—Cutting an External National Fine Thread	12
25-338	1942	The Milling Machine	7
25-339	1942	The Milling Machine—Cutting Keyways	15
25-340	1942	The Milling Machine—Straddle and Surface Milling to Close Tolerances	27
25-341	1942	The Milling Machine—Straddle Milling	17
25-342	1942	The Milling Machine—Plain Indexing and Cutting a Spur Gear	25
25-343	1942	The Vertical Boring Mill—Rough Facing, Turning and Drilling on a Vertical Lathe (Turret)	31
25-344	1942	The Vertical Boring Mill—Rough Facing, Boring and Turning a Shoulder on a Vertical Turret Lathe	22
25-345	1942	The Vertical Boring Mill—Facing, Turning, Boring, Grooving, Chamfering on a Vertical Turret Lathe Using Two Heads	31
25-346	1942	Steel Rule	14
25-347	1942	Micrometer	15
25-348	1942	Fixed Gages	17
25-349	1942	Vernier Scale	19
25-350	1942	Height Gages and Standard Indicator	12
25-394	1942	Detection of Booby Traps	21
25-624	1942	Cutting a Keyway on a Finished Shaft	13
25-625	1942	Machining a Rectangular Cast Iron Block	15
25-626	1942	Drilling and Tapping a Cast Steel Valve Body	19
25-627	1942	Drilling to a Layout and Spotfacing a Cast Iron Valve Body	15
25-628	1942	Machining a Tool Steel V Block	20
30-938	1942	Blabbermouth	19
30-949	1942	Don't Talk	21
30-950	1942	Next of Kin	79
30-1313	1944	Dangerous Comment	13
30-1314	1944	Chatter Bug	10
30-1315	1944	Postal Censorship	18
30-1334	1944	Information Please	34
30-1372	1944	Recognition of AFV's—Staghound American Armored Car	7
30-1373	1944	Recognition of AFV's—Italian M 13/40 Medium Tank	8
30-2033	1943	Sucker Bait	40
31-1143	1943	Individual Training in Ship-to-Shore Movement	25
31-1175	1943	Field Artillery 105-mm Howitzer Section in Shore-to-Shore Operations	20
31-1231	1943	Parachute Jump Training	26
31-1253	1943	Basic Training of Glider-Borne Troops—Part I—Knots and Lashings	23
31-1254	1943	Basic Training of Glider-Borne Troops—Part II—Loading Equipment in the CG-4A	29
31-1255	1943	Basic Training of Glider-Borne Troops—Part III—Flight Training	22

TF No.	Year released	Title	Running time (minutes)
31–1302	1944	Duties of the Parachute Rigger—Packing, Loading, and Delivery of Supplies by Parachute	19
44–1347	1944	The 90-mm Antiaircraft Gun on the M2 Mount—Part I—Emplacement	24
44–1348	1944	The 90-mm Antiaircraft Gun on the M2 Mount—Part II—March Order	26
44–1349	1944	The 90-mm Antiaircraft Gun on the M2 Mount—Part III—Hasty Emplacement for Antitank Firing	11
44–1350	1944	The 90-mm Antiaircraft Gun on the M2 Mount—Part IV—Preparation for Firing	35
44–1351	1944	The 90-mm Antiaircraft Gun on the M2 Mount—Part V—Inspection of Ammunition and Firing	23
44–1369	1944	The Automatic Weapons Firing Unit—Part X—How to Shoot with the Computing Sight M7	27
55–937	1943	Military Stevedoring—Part I—Loading Cargo Ships	18
55–1005	1943	Military Stevedoring—Part II—Cargo Handling Gear, Basic Operation	15
55–1093	1943	Military Stevedoring—Part III—Winches and Booms	18
55–1117	1943	Military Stevedoring—Part IV—Drafts and Slings	16
55–1118	1943	Military Stevedoring—Part V—Straps and (Transportation) Bridles	14
55–1119	1943	Military Stevedoring—Part VI—Vehicle Loading and Stowing	16
55–1287	1944	Troopship	21
104–1080	1943	Matériel Handling Methods	7
629–1027	1943	Hand to Hand Combat	48

17. FOREIGN VERSION OF TRAINING FILMS

The following list shows films rescored in Italian for use at Italian Service Units.

IT No.	Year released	Italian (Special Distribution)	Running time (minutes)
165	1944	Principles of Oxy-acetylene Welding and Cutting	12
200	1944	Pioneer Equipment—Wood Cutting Tools	8
201	1944	Pioneer Equipment—Manila Rope	7
202	1944	Pioneer Equipment—Hitches	10
203	1944	Pioneer Equipment—Knots and Bends	15
235	1944	Articles of War	43
291	1944	Trouble Shooting, Motor Maintenance—Part I—Functions of Fuel and Ignition Units	14
295	1944	Military Training	57
319	1944	Automotive Trouble Shooting—Part IX—Cooling System Troubles, Automatic	31
324	1944	Safeguarding Military Information	35
376	1944	Automotive Trouble Shooting—Part II—The Cranking System	16
377	1944	Automotive Trouble Shooting—Part III—The Fuel System, The Engine Will Not Start	13

IT No.	Year released	Italian (Special Distribution)	Running time (minutes)
384	1944	Keep 'Em Rolling—The Dodge 4x4 Truck Driver's Operating Instructions	18
551	1944	The Motor Vehicle Driver—Responsibility	25
552	1944	The Motor Vehicle Driver—Hand Signals, Road Rules, and Regulations	13
553	1944	Motor Vehicle Driver—Elementary Driving, Instructions and Inspection	25
554	1944	The Motor Vehicle Driver—Difficult Driving	16
555	1944	The Motor Vehicle Driver—Traction Aids and the Winch	27
556	1944	The Motor Vehicle Driver—Map Reading	10
557	1944	The Motor Vehicle Driver—Marching and Night Driving	21
558	1944	The Motor Vehicle Driver—First Echelon—Maintenance	35
559	1944	The Motor Vehicle Driver—Loading, Trouble Shooting, Reports, and Vehicle Abuse	27
570	1944	Automotive Trouble Shooting—Part X—Engine Tune-up	55
651	1944	Maintenance of Heavy Equipment—Parts I and II—The Engineer Tractor Dozer, Daily and Weekly Maintenance	31
937	1944	Military Stevedoring—Part I—Loading Cargo Ships	18
971	1944	Care and Maintenance of Pneumatic Tires—Part II—Preventive Maintenance	15
986	1944	Ordnance Service, The Medium Maintenance Company—Part I—Organization	11
987	1944	Ordnance Service, The Medium Maintenance Company—Part II—March and Bivouac	7
988	1944	Ordnance Service, The Medium Maintenance Company—Part III—Service Operations	8
1152	1944	Use and Care of Zigzag Rule, Metallic Tape, Steel Square	12
1154	1944	Use and Care of Crosscut Saw, Rip Saw, and Brace and Bit	17
1238	1944	Sex Hygiene	24
2048	1944	Military Courtesy	22

18. FILM BULLETINS

FB No.	Year released	Title	Running time (minutes)
1	1942	The 90-mm Antiaircraft Gun.	
	1942	The 37-mm Remote Control Antiaircraft Gun.	
	1942	The 16-inch Howitzer (Firing Tests)	7
2	1942	A New Type Trench Digger.	
	1942	Experimental Type Flame Thrower.	
	1942	Rubber Boats	6
3	1942	Experimental Carriers for 37-mm Gun.	
	1942	The 75-mm New Gun Half-Track Carrier.	
	1942	Experimental Incendiary Bomb.	
	1942	Road Craters	10
4	1942	Wire Thrower RL–37–T2.	
	1942	Camouflage Net.	
	1942	Tilt-type Semi-trailer	10
5	1942	A Provisional Infantry Antitank Battalion in Attack.	
	1942	Aerial Bombs	9

FB No.	Year released	Title	Running time (minutes)
6	1942	Canadian Medium Tank M3.	
		U. S. Army Medium Tank M3	11
7	1942	Barrage Balloons	2
8	1942	Self-propelled Gun Carrier for 37-mm Gun.	
	1942	Twenty-five Ton Ponton Bridge.	
	1942	Bofors 40-mm Antiaircraft Gun and Carriage.	
	1942	Bofors 40-mm Antiaircraft Gun (Firing Tests)	10
9	1942	First Division Landing Operations—North Carolina	16
10	1942	The 90-mm Antiaircraft Gun Battery	7
11	1942	Mobile 37-mm Gun Mount T–21.	
	1942	Medium Tractor T–9	10
12	1942	Half Tracks T–2 and T–3.	
	1942	Concrete Mixer	11
13	1942	Gas Masks.	
	1942	T–16 and T–32 Motor Carriage.	
	1942	Hasty Tank Obstacles	11
14	1942	Daimler Four-wheel Drive English Scout Car.	
	1942	The 75-mm Tank Gun M2	7
15	1942	Army Maneuvers	19
16	1942	Invasion of Crete by the German Army	11
18	1942	Multiple Gun Power-operated Turret.	
	1942	The 155-mm Gun with Hydraulically-operated Trail.	
	1942	.30 Caliber Carbine	8
19	1942	Motorcycle.	
	1942	Armored Vehicles.	
	1942	The "Aqua Cheeta" (Sea Jeep)	10
20	1942	Parachute Regiment	10
21	1942	Tank Obstacles	11
22	1942	Amphibious Force	11
23	1942	Bond Rallies	6
24	1942	Parachutists on Skiis	21
25	1942	Labor Greets General Somervell	10
26	1942	Amphibian Cargo Tractor.	
	1942	Mobile Laundry Unit	9
27	1942	Women Working on Men's Jobs.	
	1942	Mobile Field Baking Unit	9
28	1942	Decontamination of Combat Vehicles	11
29	1942	Fire, Quartermaster Fire (Not for general distribution)	9
30	1942	Mobile Machine Records Unit	10
31	1942	Battlefield Sounds	11
32	1942	Soldier Stevedores.	
	1942	Pigeons.	
	1942	Parachutists.	
	1942	Latin American Officers Visit Edgewood Arsenal	9
34	1942	U. S. Troops in New Caledonia	11
35	1942	Loading of Cargo Planes.	
	1942	Air Bombing.	
	1942	Commando Training in U. S. A.	
	1942	Dog Training	11
37	1942	Highway to Alaska	9
38	1942	Seek, Strike, and Destroy	8

FB No.	Year released	Title	Running time (minutes)
39	1942	Scrap for Victory	11
40	1942	(CONFIDENTIAL)**	11
42	1942	Convoy Snapshots—Somewhere in the Pacific.	
	1942	Training Under Fire	14
43	1943	Christmas Gifts for Troops Overseas.	
	1943	With Australians in New Guinea	10
45	1943	U. S. Attacks in the Aleutians	10
46	1942	4.2 Chemical Mortar for 1942	10
48	1943	Invasion of Poland in 1939 by the German Army	21
50	1943	Schnelle Truppen	15
53	1943	Mining Our Harbors (Limited distribution)	10
55	1943	White Phosphorus Versus High Explosives	10
56	1943	Western Battle Front, May–June 1940	40
57	1943	Smoke Defense Against Air Attack	8
58	1943	Radio Target Planes	8
59	1943	(CONFIDENTIAL)**	12
60	1943	DUKWS—The Seagoing Truck	24
61	1943	How the British Handle Ammunition in the Middle East	14
62	1943	Ammunition Supply Point—Locating and Setting Up Supply Posts (Limited distribution)	12
63	1943	(CONFIDENTIAL)**	9
65	1943	Invasion in the Making	9
66	1943	The Battle of Buna	9
67	1943	Soldiers of the Line (Not for general distribution) (Color)	6
68	1943	Clothing Impregnating Plant M1	10
69	1943	Newfoundland Communications (Color)	21
70	1943	Swiss Type Foot Bridge	9
71	1943	The Army Railroad	12
72	1943	Sub-zero Tests of Ordnance	27
73	1943	Use of the Training Film	15
74	1943	Close Combat (British)	19
75	1943	Airborne Engineers—Invasion Equipment and Weapons	7
76	1943	Enemy Mines in Tunisia	16
77	1943	Colored Smoke Grenades	9
78	1943	Avalanche	10
79	1943	Demolitions for Airborne Engineers	20
80	1944	Japanese Weapons	16
81	1943	(CONFIDENTIAL)**	8
82	1943	(CONFIDENTIAL)**	18
83	1943	(CONFIDENTIAL)**	18
84	1943	(CONFIDENTIAL)**	18
85	1944	Camouflage Dummies and Decoys (Color)	14
86	1943	Submachine Gun, Cal. .45, M3	8
87	1943	Radio Set SCR–545	15
88	1944	Self-propelled Antiaircraft Automatic Weapons	10
89	1943	Function of Army War Bond Office in Chicago	15
90	1943	(CONFIDENTIAL)**	27
91	1943	Use of War Dogs	12
93	1943	Spiral Four Cable and Cable Plow LC–61	9

**Request title from film library.

FB No.	Year released	Title	Running time (minutes)
94	1943	Gas Obstacle Course	19
95	1943	2-inch British Bomb Thrower	8
96	1943	Water Proofing Vehicles	10
97	1943	Mine Clearance Snake M2	19
99	1944	Field Water Supply Installations	17
100	1944	The Power Control Units	17
101	1944	The Tournapull	15
102	1944	The Engineer Dozers (LeTourneau)	26
103	1944	Jungle Warfare—Dry Run In Panama	10
104	1944	The Correct Use of the Official Telephone in U. S. Army Administration	19
105	1944	Field Expedients for Bomb Handling	20
106	1944	Airborne Troop Carrier Maneuvers	16
107	1944	Movies at War (Limited distribution)	15
108	1944	(CONFIDENTIAL)** (Distribution requires approval thru APS)	25
109	1944	Training Weapons for the 4.2-inch Chemical Mortar	13
110	1944	The Sea Mule Tug	27
111	1944	Road and Runway Construction—Southwest Pacific	18
112	1944	(CONFIDENTIAL)** (Very limited distribution)	20
113	1944	Fixed Bridge Construction	13
115	1944	Enemy Weapons—German Infantry Small Arms	21
117	1944	Torsion Bar Suspension	8
118	1944	Tank Transporter, M-25	20
119	1944	Engineers in Combat	23
120	1944	(CONFIDENTIAL)** (Very limited distribution)	17
121	1944	The Assault Gas Mask	12
122	1944	Fire Power vs. Japanese Log Pillboxes	12
123	1944	Ordnance Cold Weather Test of Automotive Material	24
124	1944	Operation of the Power-driven Decontaminating Apparatus	10
125	1944	Light Cargo Carrier, M29C	16
126	1944	Japanese Grenades and Mines	20
127	1944	Supply Problems in the Southwest Pacific (Further distribution requires special authorization)	40
128	1944	Save That Part	7
129	1944	Engineer Power Shovel and Attachments	21
131	1944	British Mines and Fuses	18
132	1944	Evacuation of the Wounded	15
133	1944	Hand Placed Charges Against Beach and Underwater Obstacles (Further distribution requires special authorization)	19
134	1944	(CONFIDENTIAL)** (Very limited distribution)	12
135	1944	Bulldozer for Medium Tanks	18
136	1944	38-ton High Speed Tractor	18
137	1944	Road Maintenance and Construction in Italy	10
138	1944	German S Mines	16
139	1944	German Wood and Concrete Mines	15
140	1944	Italian Mines	9
141	1944	Antenna System AS-81/GR Used for Anti-jamming	13
142	1944	Moistureproofing and Fungiproofing Signal Corps Equipment	17

**Request title from film library.

FB No.	Year released	Title	Running time (minutes)
143	1944	Blast Driven Earth Rod	9
144	1944	Winterization Kits for Automotive Vehicles	17
145	1944	Radio Set SCR–694	20
146	1944	Medical Service in the Invasion of Normandy	15
147	1944	Medical Service in the Jungle	20
151	1944	The Infantry-tank Team	12
152	1944	Combat Firing with Hand Guns	17
153	1944	New U. S. Antitank Mines, Trip Flares and Fuzes, September 1944	18
159	1944	Fifty-gallon Mechanical Flame Thrower	28
514	1943	SCR–547, Radio Optical Height Finder (Not for general distribution)	8
515	1943	The 90-mm Gun on the Two Bogie Mount	17

19. MISCELLANEOUS FILMS

Misc. No.	Year released	Title	Running time (minutes)
157	1943	The Mosquito	10
467	1943	Army Service Forces. (Further distribution requires special authorization)	44
799	1943	Service Commands. (Gen. Somervell's Chicago speech.) (Further distribution requires special authorization.)	39
801	1943	Hail and Farewell. (Distributed for WAC recruiting only.)	7
910	1943	Uncle Sam's Largest War Bond Customer	17
917	1944	You Are in the Chemical Warfare Service, Soldier Brown. (Distributed for use of CWS installations; further distribution requires special authorization.)	10
918	1944	This is the Infantry	10
924	1944	These Are the Parachutists. (Distributed for use of paratroops; further distribution requires special authorization.)	10
926	1944	Price of Rendova. (Further distribution requires special authorization.)	11
928	1944	Your Job in the Signal Corps. (Distributed for use of Signal installations.)	10
929	1944	Private Snafu in "Spies"	4
930	1944	Private Snafu in "Rumors"	5
933	1944	The Medical Department Dietitian. (Further distribution requires special authorization.)	9
938	1944	Now You're Talking	12
942	1944	Fight Syphilis. (Distributed for WAC training only.)	19
943	1944	For Your Information. (Color) (Distributed for WAC training only)	31
944	1944	The Magic Bullet. (Distributed for WAC training only.)	31
945	1944	We Serve. (Distributed for WAC training only.)	30
947	1944	Amputation of the Lower Extremity (color) (Further distribution requires special authorization.)	45
954	1944	British Quizcraft—New Adaptation. (Distribution limited to foreign installations on reorder.)	17
956	1944	Meet McGonegal	12
957	1944	Canol. (No further distribution.)	21

Misc. No.	Year released	Title	Running time (minutes)
958	1944	It's Your War Too. (Further distribution requires special authorization.)	9
959	1944	Alaska Highway. (No further distribution.)	36
1001	1943	At the Front in North Africa. (No further distribution.)	79
1002	1944	Desert Victory. (Further distribution requires special authorization.)	63
1003	1943	Know for Sure	23
1006	1943	Report from the Aleutians. (No further distribution; available in G. I. Movies, S-1.)	40
1008	1944	War Department Report. (Further distribution requires special authorization.)	47
1010	1943	Quartermasters at War. (Further distribution requires special authorization.)	25
1011	1944	Cablegram from Algiers. (Further distribution requires special authorization.)	8
1015	1944	It's Our Job. (Distribution limited to Domestic Central Libraries for civilian personnel training.)	39
1016	1944	The Cathode Ray Oscilloscope. (Limited distribution.)	24
1030	1944	To the Ladies. (No oversea distribution.)	15
1032	1944	Photo Flash Photography—How it Works. (Distribution for use of Signal installations.)	27
1035	1944	Private Snafu in Malaria Control	5
1041	1944	Attack—The Battle for New Britain	47
1044	1944	Air Operation, Lae and Salamaua. (35-mm only; further distribution requires special authorization)	32
1046	1944	Silent Battle	30
1047	1944	Maintenance of Office Machines. (Distribution limited to Domestic Central Libraries for civilian personnel training.)	37
1049	1944	Machine Transcription—Transcription Technique. (Distribution limited to Domestic Central Libraries for civilian personnel training.)	21
1050	1944	Take a Letter Please. (Distribution limited to Domestic Central Libraries for civilian personnel training.)	22
1052	1944	A Few Quick Facts. (Voting for Service Men.) (Oversea distribution only; domestic distribution accomplished in G. I. Movie No. 54)	6
1053	1944	Basic Typing, Methods—Part I. (Distribution limited to Domestic Central Libraries for civilian personal training.)	12
1054	1944	Basic Typing, Machine Operations—Part II. (Distribution limited to Domestic Central Libraries for civilian personnel training.)	30
1055	1944	Advanced Typing, Shortcuts—Part I. (Distribution limited to Domestic Central Libraries for civilian personnel training.)	35
1056	1944	Advanced Typing, Duplicating and Manuscript—Part II. (Further distribution requires special authorization.)	27
1073	1944	Attack on Hidden Waste. (No oversea distribution.)	15
1076	1944	Private Snafu in "Censored"	5
1077	1944	The War Speeds Up. (Domestic distribution only.)	18
1080	1944	Safety in Woods Work	17

Misc. No.	Year released	Title	Running time (minutes)
1081	1944	Reconditioning in the European Theater of Operation. (No further distribution.)	29
1085	1944	Going Home. (Oversea distribution only.)	4
1086	1944	(CONFIDENTIAL)** (Limited to libraries serving Seacoast Artillery Units.)	31
1087	1944	Radio Technician Training Series—Capacitance. (Limited to libraries serving Seacoast Artillery Units.)	31
1089	1944	The Diesel Engine. (Limited to libraries serving Seacoast Artillery Units.)	29
1091	1944	Diesel Engine Governors. (Limited to libraries serving Seacoast Artillery Units.)	14
1092	1944	Diesel Lubricating and Cooling Systems. (Limited to libraries serving Seacoast Artillery Units.)	10
1093	1944	For Safety's Sake. (Domestic distribution for civilian personnel training.)	15

20. MILITARY INTELLIGENCE SERVICE FILMS (JAPANESE LANGUAGE)

Mis. No.	Year released	Japanese Language Films (Special Distribution)	Running time (minutes)
526	1944	Vow in the Desert.	
585	1944	Prayer at Dawn.	
1013	1944	Atarashi Kazoku.	
1043	1944	Earth and Soldier.	
1051	1944	Mother.	

21. COMBAT BULLETINS

CB No.	Year released	Title	Running time (minutes)
1	1944	Combat Bulletin No. 1. Combat Shots, Pacific and Italian Theaters	13
2	1944	Combat Bulletin No. 2. Bridging the Volturno River, Italy. Landings in the South Pacific Area. Hawaiian Training Branch. Invasion of Cape Gloucester	14
3	1944	Combat Bulletin No. 3. Building Pill Box in Italy. Battlefield Concealment. Operations at Los Negros. Embarkation for Anzio. Capodichino Airfield in Italy	20
4	1944	Combat Bulletin No. 4. The Battle for Cassino. Japs and Jungle. Tanks and Infantry Face Enemy Fire	19
5	1944	Combat Bulletin No. 5. Stop That Tank, Rear Area in India. Something New Has Been Added—Various Special Devices, South Pacific; Netunnio Squads; Bazooka Quadruple Power; Land Mine Problem; The B–29, Modern Day Specialist	16
6	1944	Combat Bulletin No. 6. Beachhead Operations—A Day on an European Beachhead	23

**Request title from film library.

CB No.	Year released	Title	Running time (minutes)
13	1944	Combat Bulletin No. 13. Capture of Saipan. Seized Luftwaffe Films. (Distributed as SFR 13. Special domestic distribution.)	17
14	1944	Combat Bulletin No. 14. Allied Drive Breaks Nazi Normandy Defenses. Biak Airfield in U. S. Hands. Navy Operations. Capture of Leghorn. Activities on Saipan. Invasion of Noemsoor. (Distributed as SFR 14. Special domestic distribution.)	16
15	1944	Combat Bulletin No. 15. Activities in North Burma. Battle of France. Fifth Army Enters Pisa. Invasion of Guam. (Distributed as SFR 15. Special domestic distribution.)	29
16	1944	Combat Bulletin No. 16. Battle of France—Free French; Big Push; Hospital Train. Operations on Guam. Pisa and Leghorn. Preinvasion. (Distributed as SFR 16. Special domestic distribution.)	21
17	1944	Combat Bulletin No. 17. Invasion of Southern France. Operations in Northern France. Operations in Burma. Japs Attack U. S. Task Force	38
18	1944	Combat Bulletin No. 18. Progress in Southern France. Activities in Italy. Seized German film. Invasion of Sansapor. Battle of France	38
19	1944	Combat Bulletin No. 19. Expansion of Southern France Beachhead. Activities on Ledo and Burma Roads. Activities at Leghorn. Operations in Northern France	21
20	1944	Combat Bulletin No. 20. Flying Bomb Sites. Capture of Toulon and Marseilles. U. S. Airmen Freed in Rumania. Operations in France and Belgium—Canadian First Army; British Second Army; American First Army; American Third Army	24
21	1944	Combat Bulletin No. 21. Progress in Southern France. Activities in Italy. Bridge over Salween River. Clean-up in Aitape, New Guinea. North France and Belgium—American First Army; American Third Army	20
22	1944	Combat Bulletin No. 22. Yanks in Germany. Third and Seventh Armies Meet. British Take Antwerp. Buzz Bombs Halted. Nazis Give Up. Airborne Army Take Off	26
23	1944	Combat Bulletin No. 23. Boring into Siegfried Line. Rhine Bridge Seized. Battle for Lorraine. Gothic Line Cracked. Pacific War Steps Up. Canadians Clearing Channel	26
24	1944	Combat Bulletin No. 24. Channel Coast Activities. Ordnance Repairs. German Frontier Operations. Airborne Operations. Toulon Harbor Installations. Invasion of Palau Islands	20
25	1944	Combat Bulletin No. 25. Evacuation of Kweilin. Supply for American First Army. Allies near Po Valley. Americans rebuild Jap base. Invasion of Angaur	25
26	1944	Combat Bulletin No. 26. Capture of Tengyueh, Burma Road barrier. Fifth Army on road to Bologna. Seized film on Ploesti oil field. Artificial harbor in Normandy. Activities in ETO—cross-canal flame thrower; railroads	

CB No.	Year released	Title	Running time (minutes)
		bring tanks to front; U-boat at Brest; battle of Aachen; Ang in Germany; RAF bombs Germany	31
27	1944	Combat Bulletin No. 27. Clean-up on Peleliu and Angaur. Activities in European Theater of Operations. More Brazilian troops reach Italian front. Preparations for Philippine invasion. Landings on Leyte	28

22. COMBAT REPORTS

CR No.	Year released	Title	Running time (minutes)
1	1944	Liberation of Rome. (Further distribution requires special authorization.)	21

23. INFORMATION AND EDUCATION DIVISION FILMS

a. War Information Films. (1) *Purpose.* A series of films designed to acquaint personnel of the Army with the background of the present war, the history of the war to date, the current progress of the war, and information concerning our allies and enemies.

(2) *Distribution.* War Information Films are distributed by the Chief Signal Officer in such a way as to insure their exhibition to all troops at the earliest possible time after their release. The "Why We Fight," "Know Your Enemy," and "Know Your Ally" series are circulated for exhibition at post theaters during daytime hours. They are not exhibited as part of the entertainment film programs shown in the evening at post theaters. Prints, both 16-mm and 35-mm, are made available for later showings through the service command film library system. If prints are not available at post film libraries, they may be obtained from the central film library of the service command.

Issue No.	Year released	Subject	Running time (minutes)
		WHY WE FIGHT SERIES	
OF 1	1942	Prelude to War *Probes back to the forces and reasons that lead to the present conflict; shows the rise of Hitler, Mussolini, and the Japanese Empire; includes the Japanese conquest of Manchuria and the Italian conquest of Ethiopia.*	50
OF 2	1943	The Nazis Strike *Shows how Germany planned and prepared for this war and how she struck her first blows in Austria, Czechoslovakia, and Poland.*	50

Issue No.	Year released	Subject	Running time (minutes)
OF 3	1943	Divide and Conquer *Shows how Hitler, in spite of pledges and treaties, enslaved the smaller democracies to his west—Denmark, Norway, Holland, Belgium. How his armies invaded France and drove the British from the continent at Dunkirk.*	50
OF 4	1943	The Battle of Britain *Presents the story of the year during which Britain stood alone against the Axis—how the Nazi air force, then the most powerful in the world, smashed at her cities and how she fought back and finally stopped Hitler.*	50
OF 5	1943	The Battle of Russia *Shows the background of the Russians—how they live, work, and play, how they feel about their country, and how they swarmed to its defense when Hitler struck. It shows the major actions up to and including the Russian victory at Stalingrad.*	90
		SUPPLEMENTARY WAR INFORMATION FILMS	
OF 16	1943	Know Your Ally—Britain *Explains to the American fighting man his British ally. Its purpose is to clarify and to present a true picture of the nature of the British and their part in the war.*	42
OF 32	1943	British and Current Affairs *This is a British film adopted by the U. S. War Department for the information of officers and other personnel responsible for conducting orientation programs at platoon or company level. This film depicts the swift development and history of the British Orientation Program known as ABCA, Army Bureau of Current Affairs.*	15
OF 51	1944	The Negro Soldier (formerly RF 51) *Shows participation of Negro Americans in the various wars engaged in by the U. S.—main part of this story deals with the negro soldier in the present war. Activities of well-trained negro units representing every branch of the service are vividly portrayed.*	41

b. Army-Navy Screen Magazine. (1) *Purpose.* A 20-minute flexible newsreel-type series of films produced fortnightly and designed to meet specific morale needs. This series is broad in scope for the purpose of enlarging the soldiers' perspective of the war and its objectives are to present the progress of the war on all fronts; promote and maintain better relations with our allies; report on the home front; aid training by presenting specific lessons through the use of animated cartoons; present a thorough understanding of the character of our enemy, their equipment, etc.

(2) *Distribution.* In 35-mm the Army-Navy Screen Magazine is booked domestically for first run showing in every War Department

theater. These prints are handled by commercial exchanges and booked with the regular entertainment programs. They play the War Department theaters in the evening as a short subject supplementing the entertainment feature. In 16-mm the Army-Navy Screen Magazine is a biweekly component of "G. I. Movie Weekly," and distribution of this film in 16-mm, both domestically and overseas, is the same as that for "G. I. Movie Weekly," c below.

c. "G. I. Movie Weekly." (1) *Purpose.* "G. I. Movie Weekly" provides 45-minute programs of education, information, orientation and subjects of general interest for free showing to troops throughout the world. It is the 16-mm film medium for imparting such programs directly to military personnel both within the continental limits of the United States and in all oversea theaters on a regular weekly schedule. Shown in recreation centers, service clubs, out of doors, and at other improvised locations, "G. I. Movie Weekly" is presented informally on off-duty time, under the favorable psychological conditions which surround voluntary attendance.

(2) *Distribution.* (*a*) Within the continental United States, "G. I. Movie Weekly" releases have been supplied upon request to all important installations. Distribution is on a circuit system designed to assure complete coverage with a planned first run play-off of 8 to 12 weeks. Requests for rebookings, or additions to the "G. I. Movie Weekly" circuits, should be referred to the Signal Corps Photographic Center, Distribution Division, 145 East 32nd Street, New York 16, New York, Attention: G. I. Movie Weekly Section.

(*b*) Theater, department, and other oversea commands will automatically receive "G. I. Movie Weekly" releases through oversea circuits as determined by the theater or department commander and in cooperation with the Signal Corps.

24. BUREAU OF PUBLIC RELATIONS FILMS

a. Industrial Services Films. (1) *Purpose.* The following official War Department films have been made available for showings to industrial war workers in both 16-mm and 35-mm sound-track prints.

(*a*) The majority of these films demonstrate the relationship of the war worker to the fighting men in all corners of the globe.

(*b*) The films are grouped under two categories in order to assist war plants in assembling suitable programs for showings to their employees. In the first classification are films of general interest. These films can be shown in any war plant regardless of the type of product they manufacture. The second group includes "films made for specialized industries." These films are particularly appropriate for the war workers in industries for which their film content was designed. Several films, while directed particularly to one industry, can be adapted to every

type of industry due to the general nature of the material contained within the film.

(2) *Distribution.* Distribution policy for war plants and labor unions is as follows: The Industrial Services Division of the War Department Bureau of Public Relations has established a national distribution system of film exchanges in key cities throughout the country. War plants and labor groups desirous of showing these films should address their requests to the Industrial Services Division, War Department Bureau of Public Relations, Room 2E867, The Pentagon, Washington 25, D. C.

WF No.	Film Communiques	Running time (minutes)
20–1	Film Communique No. 1	18
	First of a monthly series of pictorial combat reports to industrial war workers. This one consists of three parts: Little Detroit, a truck-assembly plant in a theater of operations (Africa); landing supplies and evacuating the wounded by Air Transport Command in New Guinea; the Price of Rendova, establishment of beachhead, landing of invasion troops and equipment, a Jap bombing attack which kills a number of American troops and destroys a part of the matériel landed.	
20a	Film Communique No. 1a (Special issue of Film Communique No. 1)	18
	High Octane Gas Industry—In this film is "The Price of Rendova" which shows the price we paid in men and matériel for the beach-heads we seized in the South Pacific; also the vital necessity for the 100-octane gasoline which gives life to our Air Force.	
20–2	Film Communique No. 2	20
	In two parts—the first, "A Day With the A–36s," the new attack bomber adapted from the P–51 Mustang. We sit in the pilot's seat while the ships dive through the clouds and bomb and strafe German pill boxes—bird's-eye witnesses of modern air combat. Glimpses of the ground life of the men who service and fly one of the newest of Uncle Sam's war birds. Part two is a captured German industrial film that gives a thought-provoking picture of Germany's war production.	
14	Film Communique No. 3	20
	The great job done by LST boats in getting men and equipment ashore under fire in Sicily and Italy. The assembling of American railroad equipment in Italy to replace destroyed Italian equipment. The finest combat pictures to date of American P–47s blasting Nazi fighters from the sky over Europe. The paratroop attack on Lae in New Guinea which was personally supervised by General Douglas MacArthur.	
15	Film Communique No. 4	20
	This issue covers three subjects: "Aerial Techniques," showing action during raids by our flyers on Hansa Bay, Wewak and Rabaul; "Roll of Honor" shows the rebuilding by Negro Engineer troops of the Munda airstrip; "Fifth Army" follows our infantry from Salerno up through devastated Italian cities across the raging Volturno River.	

WF No.	Film Communiques	Running time (minutes)
16	Film Communique No. 5	20
	The invasion of Tarawa, bloodiest operation in U. S. Marine Corps history, is the chief feature of this film. Dramatic pictures show the off-shore attack, the intense fighting on the beach, the destruction of almost impregnable Japanese fortifications. P–47s in action over Europe, "Two Million Dollar Hill," jungle training in Hawaii, and an animated feature, "A Few Quick Facts," comprise the remainder of the issue.	
17	Film Communique No. 6	20
	A vivid pictorial record of the taking of Cape Gloucester and Arawe on New Britain Island; "General Mud," wear and tear on our men and equipment in Italy; Piper Cubs in action directing and checking on the results of artillery fire; "Yankee Rope Trick," the unusual story of a B–24 Liberator flying to the rescue of a stranded Liberty ship; portable oil lines laid from Italian ports to take vital fuel swiftly to the front lines.	
18	Film Communique No. 7	20
	Contains the capture of the Japanese stronghold on the Marshall Islands by combined naval and land forces. "Burma Outpost" shows how our advance units, isolated by miles of untracked jungle, are supplied by parachute. Private Snafu, famous animated G.I., appears in "The Home Front."	
22	Film Communique No. 8	20
	Five main sequences: In Cape Gloucester, New Britain, a Marine unit is relieved after 23 days and nights of jungle fighting; daring French pilots of the RAF attacking a Nazi target in American-built bombers; ground crew men of Fifth Air Force repairing battle-damaged planes at an air depot in New Guinea; animated sequence showing distance a rifle bullet must travel to reach Pacific battle lines; spectacular pictures of the American landing at Anzio, Italy.	
23	Film Communique No. 9	20
	This film shows return of a B–24 Liberator Bomber, "The Blue Streak," after being first over Rome, first over Naples and first over Ploesti oil fields. Private Snafu in "Fighting Tools" shows home-front workers how American soldiers are instructed in care of guns. "Battle of the Hills" shows General Joseph W. Stilwell's American and Chinese troops battling their way back into China through Burma.	
24	Film Communique No. 10	20
	Features a showdown battle for Hill 700 in Bougainville, and gradual annihilation of the Jap Sixth Division. Included in the film is a typical day with the crew of a B–26 Marauder bomber in Europe.	
35	Film Communique No. 11	20
	Commando Kelly returns home after covering himself with glory. Scenes show the famous "Task Force 58" in action off Saipan; fighting in France and scenes following taking of Cherbourg.	
36	Film Communique No. 12	20
	(Weapons of War) Shows the softening up and taking of the Jap-held island of Guam. Other sequences show our Chinese allies constructing and leveling huge airfields practically with their bare hands; a dramatic paratroop operation is included, as well.	
37	Film Communique No. 13	14
	(Back Door to Japan). Shows the taking of Myitkyina Airfield.	

TF No.	Training Films	Running time (minutes)
1-3337	Bombers over North Africa	19
	Bombing mission in North Africa. Film shows preparation of the planes, briefing of the crews by Intelligence officers before the raid, the bombing raid itself and interrogation of the crews on their return. Brief speeches by Generals Eisenhower and Doolittle.	
21-1024	Kill or Be Killed	10
	Produced as a training film to acquaint soldiers with the gentle art of hand-to-hand physical combat. This film was made with stark realism and has a jolting impact especially for those producing equipment and weapons for the soldiers to use in actual combat.	
21-2014	Baptism of Fire	36
	Produced for showing at ports of embarkation to acquaint the soldier with combat conditions in an attack. This film is a powerful picturization of both the gruesome actualities of the battlefield and emotions of a soldier advancing into action for the first time. To industrial workers it brings a grim picture of what lies ahead for the men for whom they are producing equipment and supplies.	

Issue No.	Why We Fight Series. (For scope, see Information and Education Division Films.)	Running time (minutes)
OF 1	Prelude to War	50
OF 2	The Nazis Strike	50
OF 3	Divide and Conquer	50
OF 4	Battle of Britain	50
OF 5	The Battle of Russia	75

WF No.	Miscellaneous Films	Running time (minutes)
1	The Arm Behind the Army	13
	A dramatization of labor and industry's role in modern warfare, their stake in this conflict, and an expression of the Army's confidence in them.	
3	Firepower	12
	Dramatizing the vital need for all types of guns and ammunition. Sequences show how nations without sufficient firepower fell before the Nazis, and how the men and women of those nations are now working along with our war workers. The film ends with a demonstration of American weapons.	
8	Road to Berlin	20
	A Nazi submarine "wolf pack" racing to intercept a convoy carrying urgently needed supplies—furnishes the dramatic elements in this film. The picture brings out the importance of the many jobs performed by men and women who are vital links in the lifeline to the front.	
19	How Good is a Gun?	20
	This film shows a caliber .30 bullet, shot from a Garand, tearing through 4 inches of solid concrete. It shows the carbine, the Browning automatic, the caliber .30 machine gun, the mortars, the bazooka, in field testing and in action. Scenes of "Long Tom," the 155-mm rifle, show that weapon lifting the roof off a steel and concrete blockhouse 15 miles away. Our	

WF No.	Miscellaneous Films	Running time (minutes)
	artillery is shown pounding German frontline positions in Italy, shelling an Italian town. The great 240-mm howitzer is pulled into combat position and emplaced.	
25	The Hidden Army	15
	This film shows Adolph Hitler, in an Allied prison after the war, writing in his memoirs his under-estimation of American womanpower in war industry. Shots of American women in all walks of life rallying to their country's call for help in producing weapons and matériel of war. Interviewed on the job, they give their reasons for going into war work.	
34	Brief for Invasion	30
	Briefings by four leading American generals, coupled with actual footage on the invasion in Europe. Shows American war workers that no force on earth can hold out against them and their fighting partners in their combined efforts.	
42	A War Department Report on German Morale	19

Misc.	Miscellaneous Films	Running time (minutes)
467	Army Service Forces	45
	This film shows the staggering task of supplying a modern army with men, equipment, food and munitions, as is done by Army Service Forces. It shows what happens when the order is given to invade, how the fighting units are assembled, transported across the ocean, and landed on a foreign shore.	
1008	War Department Report	45
	An official and dramatic report by the General Staff to the men and women of America's war industry. Hitherto confidential material on the strength and weaknesses of the enemy and on the job ahead of us is presented, illustrated by the finest combat scenes filmed by Army and Navy camera crews, by captured film, and by interesting animations which make the most intricate problems of strategy crystal clear.	
1077	The War Speeds Up	15
	Illustrates the complete dependency of our soldiers in combat upon "The Big Four"—Artillery's Big Guns and Shells—Bombs—Trucks—Tires. Comments by the chiefs of our military staffs further testify to the complete dependency of our men on the fighting front being supplied with increased shipments of equipment for battle, so that further victories can be accomplished.	

R&A	Miscellaneous Films	Running time (minutes)
185	Landing in Sicily	6
	An exciting short film; the official film record of the opening attack on the not-so-soft "underbelly" of Europe. Photographed under fire for the most part, it shows the amphibious attack, the initial landings and the effects of Axis counterattacks on men and matériel.	

WF No.	Films for Specialized Industry	Running time (minutes)
2	Combat Report (Aviation) *A photographic communique reenacting an actual engagement of an Army bomber sinking a submarine. Flashbacks dramatize production of vital aircraft equipment.*	12
4	Attack Signal (Electronics) *An American task force attacks a South Pacific island. During landing operations a radio set, and its production, play a crucial part in the outcome of the assault. The film emphasizes the necessity for quality in production, and shows how carelessness in a plant nearly caused the annihilation of a landing force.*	13
5	Shock Troop (Lumber) *Picturing the vital role of the woodsmen and millmen throughout our history and their particularly important contribution in the present war, featuring the use of lumber in the equipment and the supplying of our fighting men.*	11
6	War on Wheels (Automotive) *The exciting film story of an American truck convoy ambushed by German tanks. Its rescue in a pitched battle by a group of American medium tanks graphically pictures the type of action which won for us in Tunisia. The commentary brings home to the worker the importance of his role in our mounting war production.*	22
10	Lifeline (Medical supply) *The camera record of the opening attack against Rendova and Munda, the Jap's counterattack, and the magnificent job done in evacuating American wounded and saving their lives. In these frontline scenes is vividly shown how medical supplies from America mean the difference between life and death for our fighters.*	18
11	All American (Aviation) *A vivid picture story of the Army Air Forces in operation all over the world, taken by combat cameramen. Action shots show the All American team of pursuit ships, bombers, and transports on actual missions—meeting swarms of enemy fighters—smashing ships and shore installations with heavy bombing—transporting wounded men and vital materials—landing a division of paratroopers from the air.*	28
12	They Deliver the Goods (Supply and depots) *How our fighting equipment gets through to our fighting men in quantity and on time. The mountains of combat supplies loaded at ports of embarkation are unloaded under fire in the South Pacific. From behind-the-lines general supply depots they are moved through jungle swamps to the firing lines.*	20
13	The Case of the Tremendous Trifle (Ball bearings) *A film dramatizing the important war role of small parts. The Schweinfurt raid, the story behind the raid, and the significance of this operation (in which we lost 60 heavy bombers and Germany lost half an industry for months) are all pictured in this film.*	20
21	Earthmovers (Bulldozers, steamshovels, cranes) *This special film shows heavy equipment of all types in use by the Corps of Engineers and the Seabees in action on all fronts. Operating under fire in battle sectors all over the world, these soldiers and sailors and the tools from American factories are conquering desert and jungle, literally paving the way for our troops and their planes, tanks, and guns.*	14

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WF No.	Films for Specialized Industry	Running time (minutes)
26	Timber to Tokyo (Lumber) *Wounded Marine tells lumberman friend the part lumber plays, and will play in our present war in the South Pacific. The Marine's fighting experiences are strikingly illustrated, and the part lumber plays in the building and application of the matériel of war is vividly portrayed in this film.*	14
29	Men of Fire (Forgings and castings) *Appeal to the men of Forgings and Castings Industry, showing them the part their work plays in the war. A combat sequence in France opens the film. The hero is killed and his spirit returns home for a last look at his friends in a Forgings and Castings plant. Many of them have switched to other jobs. His final appeal asks them to go back to work in the plant so that our victory will be assured.*	15
30	Birth of the B–29	21
31	Cotton at War (Cotton industry) *Especially made for the cotton-manufacturing sections of the country, combat and training scenes vividly show that virtually everything that shoots, flies, floats, rolls, or walks has cotton as an integral unit.*	13
33	B–25s (Aviation) *Shows the North American Mitchell B–25s at Cape Gloucester bombing, strafing, attacking at low levels and high, and blasting enemy gun emplacements, pill boxes and tanks.*	6
44	Earthmovers—Special Version (Rubber) *Of particular interest to workers in rubber industry. Has a special commentary.*	14
48	Highballing to Victory	12

b. Other BPR Films.

WF No.	Subject	
7	Community at War. (No distribution to film libraries.)	27
9	Soldiers without Guns. (Distribution to all domestic film libraries for showing to civilian personnel.)	18

25. FILM STRIPS

a. Army Air Forces Film Strips.

FS No.	Year released	Subject
1–4		Machine Tools—The Lathe. *Nomenclature, practical uses and operation.*
1–5		Machine Tools—The Milling Machine. *Nomenclature, practical uses and operation.*
1–6		Machine Tools—Planers. *Nomenclature, practical uses and operation.*

FS No.	Year released	Subject
1–7		Machine Tools—The Shaper. *Nomenclature, practical uses and operation.*
1–8		Aerodynamics. *Motion of air and the force it exerts upon moving solids; the way in which turbulence and skin friction oppose useful dynamic reaction.*
1–9		Classification of Engine Types. *Methods of classifying aircraft engines as to type; in-line, V-type, double V-type, X-type opposed, radial, and according to cubic inch displacement.*
1–11		Forced Landings. *General procedure to be followed in case of a forced landing; establish a safe glide, secure field, maneuver into best possible position for landing.*
1–12		Using an Aircraft Machine Gun. *Nomenclature and operation of the .30 and .50 caliber guns, their synchronization with the propeller; installation on P–35, P–38, P–39, P–43, and methods of firing from various positions.*
1–13		Use of Aerial Chemical Spray Tanks. *Airplane chemical spray tank for dissemination during flight; preparation for filling the E6R9 tank; releasing smoke and gas in flight; precautions when filling and cleaning tank.*
1–14		Browning Aircraft Machine Gun, .30 Caliber M2. *Functioning of parts of the .30 caliber M2 during recoil and counterrecoil.*
1–17		Aircraft Storage Batteries. *Types of batteries used on airplanes, and their operating principles; function of container, plates, separators, electrolyte, vents, and terminals; methods of charging and testing.*
1–18		Synchronization of Aircraft—Principles of Synchronization. *Methods of synchronizing aircraft machine guns; relationship and operation of four basic units: synchronizer, trigger, motor, tube and wire assembly, and control unit.*
1–20		Enlarging Aerial Negatives. *Shows how enlarging, reducing, and restitution of aerial negatives are accomplished with AF printer, type B–9.*
1–21		Assembling Aerial—Photographic Mosaics. *Equipment used in making aerial reconnaissance map; processes involved: processing of film, numbering and checking negatives with index map, assembly prints, laying reconnaissance strip.*
1–22		Principles of Liquids and Gases. *Basic physical principles as applied to liquids and gases, with illustration of their application to the hydraulic system of the airplane.*
1–23		Introduction to Airplane Instruments. *Principles of instrument operation, with discussion of electrical and mechanical types.*
1–24		Hamilton Standard 2–Position Propeller. *Purpose, use, limitations, structure, together with suggestions for inspection and maintenance.*
1–26		Tachometers and Synchronism Indicators. *Operating principles of aircraft tachometers, with inspection and maintenance procedures. Application of systems of synchronization with use of tachometers on multiple-engine installations.*

FS No.	Year released	Subject
1–27		Cylinder and Piston Assemblies. *Technical details of cylinder and piston. Illustrates inspection of cylinder and piston defects, and use of thickness gauge and micrometer.*
1–28		Curtiss Electric Propeller. *Aluminum and steel blade types. Gives particular attention to hub assembly and the electrical unit which changes angle of pitch.*
1–29		Airplane Flight Control Surfaces and Wing Flaps. *Primary and secondary control surfaces; function of control surfaces; construction, maintenance and inspection also covered.*
1–30		Loading the Type T–3A Aerial Camera. *Step by step procedure in loading the type T–3A aerial camera.*
1–32		The Sun. *An elementary study, produced in color, of the origin of the solar system, salient features of the sun's characteristics as well as its effect upon the earth.*
1–33		Don'ts for Day Flying. *What not to do during daylight flying with respect to weather. operation instructions, engine, and other typical "don'ts."*
1–34		Aircraft Engine Carburetion. *A thorough description of the carburetor, its construction and operation; outlines provisions made for unusual conditions that aircraft carburetors are subject to.*
1–35		Connection Rods, Crankshafts, Bearings and Crankcases. *Purpose, essential parts, and means of disassembling and assembling connecting rods, crankshafts, bearings, and crankcases.*
1–36		Aircraft Gun Camera—Type H–3. *Nomenclature, identification of parts, structure, use, operation, maintenance and inspection.*
1–39		Aerial Bombs—Fusing and Handling of Loaded Bombs. *Detailed cross-section of both nose and tail fuses; nomenclature of various types of aerial bombs: explosives, fragmentation, demolition, and chemical.*
1–40		Synchronization of Aircraft—Care and Maintenance of Synchronizing Units. *Steps in disassembly and assembly, care and maintenance of synchronizing units.*
1–42		Flared Tubed Connections. *Assembly of tubing in the BC–1 airplanes; fabrication of tube flares over tightened assemblies; distorted flares and assemblies.*
1–43		Synchronization of Aircraft—Disassembly and Assembly of the Trigger Motor. *Disassembly and assembly, care and maintenance of the trigger motor unit.*
1–44		Training and Duties of a Bombardier and Navigator. *An orientation film strip for prospective and beginning bombardier students. Refers to necessity for knowledge of mathematics. Depicts a sample bombing mission and the work of the bombardier. Shows training in navigation, a typical navigation mission, and working conditions of the navigator.*
1–45		Aerial Bombs—Fusing and Handling of Practice Bombs. *Assembly of M38–A–2 practice bomb; inspection, preparation, and*

FS No.	Year released	Subject
		operation of sand loading the bomb. Also: M1–A1 spotting charge, M37 parachute fragmentation bomb; M104 practice fuses; fusing M37 with the M104.
*1–46		Parachutes—Construction and Care of the Parachute. *Various types of parachute assemblies, the three major units, and their construction; proper and improper methods of handling the parachute.*
1–47		Properties of Photographic Lenses. *Function of the lens; pinhole lenses; focal length of lenses; size of image; necessity for focusing the lens; and inversion of the image.*
1–48		The Care and Cleaning of Photographic Lenses. *Emphasizes care of the lenses to insure proper functioning, and precautions to be observed in their use. Shows methods of cleaning.*
*1–49		Parachutes—Folding and Packing. *Adjusting harness to the wearer. Inspection of parachutes to determine which are repairable and which should be condemned. Drop testing; cleaning and drying; system of storage and shipping.*
1–50		Valve and Ignition Timing. *Valve operation of the 4-cycle engine. Early and recent timing specifications. Illustrates valve-timing procedure on typical radial and liquid-cooled engines, and methods of checking ignition timing on standard types of engines.*
1–51		Thermometer. *Use, operation and maintenance of various types of aircraft thermometers.*
1–52		Pressure Gages. *Application of pressure gages on aircraft. Illustrates Bourdon mechanism, diaphragm mechanism, and aneroid mechanism.*
1–53		Generator and Regulator Systems—Principles. *Details of the various inspections required on generator and regulator systems: daily, 25-, 50-, 100-hour, and special inspections.*
1–54		Synchronization of Aircraft—Impulse Tube and Wire Assembly. *Inspection, care and maintenance of the impulse tube and wire assembly and the control assembly of the synchronizing system.*
1–55		Nose Assemblies. *Typical nose assemblies: propeller reduction gears, installation of thrust-bearings, propeller oil control valves, and others. Complete assemblies for radial engines; methods of checking fire orders.*
*1–56		Parachutes—Inspection. *System of inspecting the service seat type parachute, both routine and complete inspections.*
1–57		Loading the Type A–1B Camera Magazine. *Step by step procedure for loading the A–1B camera magazine.*
1–58		Fuel Level Gages. *Mechanical and electrical gages, their operating principles, methods of inspection and maintenance.*
1–60		Aircraft Engine Pumps. *Coolant, fuel, and oil pumps; various types of vacuum pumps; relief valve.*
1–62		Hamilton Constant Speed Propeller. *Component parts of the Hamilton constant speed propeller; principles of operation; inspection and maintenance procedures.*

*Authorized for ASF training and for permanent retention by film libraries.

FS No.	Year released	Subject
1–63		Effective Study Methods. *Most effective methods of studying; study conditions and technique; assignments and note-taking.*
1–64		Intake and Exhaust Systems. *Diagrams the essential elements of a simple intake and exhaust system; intake and exhaust systems for radial and V-type aircraft engines. Gives simplified explanation of the supercharger. Outlines maintenance and inspection procedures for intake and exhaust systems.*
1–65		Aerial Bombs—Equipment for Loading. *Equipment for the loading of aerial bombs of all sizes, from 50 to 2,000 lbs.; M–5 trailer, M–1 truck, D–6 and B–7 bomb-shackles, the C–3 bomb hoist, and the various types of bombracks and bomb releases.*
1–66		Aircraft Engine Troubles—General. *Common engine troubles in the compression and ignition systems; causes of improper compression; ignition troubles caused by defective spark plugs.*
1–67		Aerial Navigation—Radius of Action Returning to Same Base. *Determining factors, terminology, and ideal solution.*
1–68		Aerial Navigation—Radius of Action Returning to Alternate Base. *Ideal solution through development of factor diagram; effect of data change.*
1–69		Cross Country by Maps. *Uses a cross-country navigation problem to show general principles applicable to other map problems. Explains conventional symbols and logs.*
1–70		Aerial Traffic Patterns. *Reasons for establishing aerial traffic patterns; check points, field traffic and squadron patterns, and night flying.*
1–71		System of Procurement and Exchange of Aircraft Parts. *System of securing replacement parts. Schematic diagram shows the flow of parts from depot to repair hangar.*
1–72		Aircraft Engine Operation. *Procedures for starting up, warming up, ground testing, and stopping aircraft engines; operation under various flight conditions.*
1–73		Aircraft Inspection Procedures. *Designed to show the aviation cadet the procedure by which his airplane is maintained.*
1–74		Aircraft Engine Lubricants. *Produced in color to show the physical properties of lubricants, and their application to aircraft.*
1–75		Hamilton Standard Hydromatic Propeller. *Special features, purpose, use, and limitations; the various subassembly units; suggestions on inspection and maintenance.*
1–76		Aircraft Maintenance Inspection—Inspection of Camera. *Portrays the photographer adjusting and inspecting the camera prior to takeoff, and entering data on Form 41.*
1–77		Aircraft Engine Fuels. *Fuel specifications and special requirements of the aircraft engine: volatility, octane rating, and purity, methods of storing and handling fuels.*

FS No.	Year released	Subject
1–80		Antennas. *Sound and light wave phenomena; production of radio waves; the electromagnetic spectrum; loading and feeding of antenna; ground system. Also covers propagation of radio waves; radiation patterns; use of loop antenna; radio range stations, and aircraft antennas.*
1–81		Aircraft Maintenance Inspection—Inspection of Armament. *Correct routine in preflight inspection of aerial guns.*
1–82		Aircraft Engine Troubles—Starting. *Aircraft engine starting difficulties are discussed under the following headings: cold weather; carburetion, compression, ignition, and starter.*
1–84		Aerial Navigation—Interception. *Responsibility of the navigator in the interception of enemy sea or aircraft; purpose and methods of interception, using the principle of lead.*
1–85		The A–2 Bomb Release. *Components, internal and external structure. Includes installation, wiring system, and functioning of shackles. Gives special attention to the two skip station features of the release.*
*1–86		Alternating Current. *An elementary introduction to principles of alternating current. Demonstrates and explains Lenz' Law, simple wave alternator; some discussion of frequency, effective value, voltage-current-time relationship, and power.*
1–87		The M–103 Nose Fuse. *Uses photographs, drawings and diagrams to explain use, nomenclature, and functioning of the M–103 Nose Fuse. Diagrams show the relationship of various parts. Depicts setting for delay and instantaneous firing. Also treats safety features and precautions.*
1–88		Aerial Navigation—Solutions of Radius of Action Problems. *Computations and construction for Distance-Fuel graph, and use in preflight computations with wind zones. Interpretation of graph with reference to actual flight and critical points.*
*1–90		Glider Training—Classes of Gliders. *Types of gliders, arrangement of wings and instruments used.*
*1–91		Glider Training—Aerodynamics. *Aerodynamics of gliders as related to construction and operation.*
*1–92		Glider Training—Care of Equipment. *Method of handling glider, mounting glider on dolly, moving glider, disassembling glider, loading sections on trailer, unloading and inspection procedure, making repairs, making out report forms. Reassembly of the TF–2.*
*1–93		Glider Training—Tow Ropes and Cables. *Ropes and cables used in operation of gliders; methods of splicing; also treats subject of glider releases.*
*1–94		Glider Training—Launching Equipment. *Four types of launching equipment with methods of using each type, from pre-takeoff to release. Stresses safety precautions. Describes takeoff technique.*
*1–95		Glider Training—Approaches and Landings. *Proper approach and landing procedure for landing on large and small fields in various types of weather conditions. Indicates methods of control by use of spoilers and drag flaps.*

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FS No.	Year released	Subject
1–96		The M–106 Tail Fuse. *Use, installation and sequence of operation in handling this arming pin, delay action fuse. Function of each part is described.*
1–97		Primary Pilot Training. *Designed to acquaint the primary flying student with PT airplane controls; proper care of equipment; use of hand signals.*
1–98		Effect of Controls. *For use with elementary aviation pilots and instructors. Describes function of basic controls and what happens when each is used. Explains coordination of controls, and stresses the elimination of "manhandling" controls.*
1–99		Aerial Bombs—Method of Loading Bombs. *Procurement, arming, loading, inspection and safety precautions associated with handling of aerial bombs. Procedure of Ordnance and Air Corps personnel is illustrated with B–18 and B–17E airplanes.*
1–100		Starting Systems—Maintenance. *General information for daily, preflight and periodic inspection and maintenance of direct cranking, inertia, cartridge-type aircraft starting systems and the portable field energizer is covered. Also treats method of seating new brushes, and care of commutator.*
1–101		Aircraft Engine Maintenance. *General instructions for inspection and maintenance of radial and liquid-cooled aircraft engines. Treats ground operation of engines, instrument and controls checks, ignition checks; and the keeping of maintenance records forms.*
1–102		Printing Aerial Film. *Proper method of printing aerial film, with particular emphasis on the care required in printing mosaic assemblies.*
1–103		Aerial Navigation—Star Identification. *Names of the principal navigational stars, and describes means of recognizing them by certain reference constellations and geometric patterns.*
1–104		General Principles of the Propeller. *Function and operation of the aircraft propeller; thrust, pitch, angle, slip feathering, and windmilling. Traces development of modern propeller.*
1–107		The P–40 Hydraulic System—Operation. *Operation of the component parts of the P–40 hydraulic system: power section, wing flap section, landing gear section, emergency extension system, position indicating system, gun charging system, and hydraulic brake system.*
1–108		The P–40 Hydraulic System—Inspection and Maintenance. *Periodic inspection and maintenance of the P–40E–1, complete checking, methods of bleeding the system, replenishing of hydraulic fluid. Points out parts to wear, and shows methods of adjustment.*
1–109		Starting Systems. *Theory and operation of starting systems on aircraft engines; inertia starters, direct cranking starters, hand-turning gear type starters, air injection starters, and the cartridge starter.*
1–110		The Army Air Corps Song. *Words of the official AAF song. "The Army Air Corps."*

FS No.	Year released	Subject
1–111		Typical Instrument Installations in Cockpits. *Installations of instruments, panels, hardware, and their inspection and maintenance; general problems to be encountered in installation.*
1–112		Aircraft Engine Troubles—Operating. *Most common engine troubles as to cause, results, trouble-shooting, preventive action, and repair. Covers ignition, fuel, oil, generator, and cooling systems.*
1–113		Hydraulic System Units—A Simple System. *Detailed description of the complete hydraulic system of an airplane, with explanation of the operation of the various units of the system.*
1–139		Ignition Systems—Maintenance. *Maintenance of aircraft ignition systems, including periodic inspection of magnetos, spark plugs, boosters, switches, and wiring.*
1–140		Generator and Regulator Systems—Maintenance. *Preflight inspection of the generator, elementary repairs of generator and regulator. Care of batteries is briefly described.*
1–141		Ignition Systems—Principles. *Summarizes magnetic and electro-magnetic induction. Demonstrates heat generation by the arc, gap distance, electrode shape, gas pressure and voltage as variables. The functions of ignition condensers and distributors are explained.*
1–142		Aircraft Maintenance and Inspection—The Mechanic's Duties. *Duties in 50-hour and subsequent inspections; prescribed operations being performed on P–38 and B–25; propellers and accessories, power plant, manifold and supercharger, cooling system. Explains use of Form 41.*
*1–143		Glider Training—Airwork. *Techniques of glider airwork: level flights, turns, stalls, spins and spiral dives.*
*1–146		Glider Training—Soaring Technique. *The use of hills for utilizing wind current deflection is illustrated, as well as proper place on ridges for safe gliding and soaring. Gives general description of thermals. Discusses danger of cumulo nimbus clouds.*
1–147		Flight Control Mechanisms. *Manner and mechanisms by which flight controls actuate control surfaces, together with resulting regulation of airplane movement. Classifies and locates the primary and secondary controls. Demonstrates use of tensiometer and control stop setting.*
1–148		Aircraft Compasses. *Principles governing functioning of aircraft compasses, their construction and procedures for checking and compensating on the ground and in the air.*
1–149		The Automatic Pilot. *Description of the A–2, automatic pilot, its operation and maintenance, together with inspections and repairs.*
1–150		Flight Reports—Air Corps Forms 1 and 1A. *Proper procedure for proper handling of airplane flight report Forms 1 and 1A. Portrays purposes, functions, and use of these forms.*
1–151		Operation of the Type A–5 Roll Film Dryer. *Procedure for loading and operating the A–5 roll film dryer.*

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FS No.	Year released	Subject
1–152		The Airplane Mechanic. *Survey of the work of the airplane mechanic. Ground crews for all types of airplanes are pictured. A complete inspection routine is demonstrated, with examples of 2d, 3d, and 4th echelon work.*
1–153		Loading the Type A–5 Camera Magazine. *Step-by-step procedure for loading the A–5 camera magazine; checking magazine, loading film, filling out data card, and use of the field loading-bag.*
1–154		Aircraft Gyro Instruments. *Principles of operation, construction, inspection, and maintenance of aircraft gyro instruments: bands and turn indicator, and flight indicator.*
1–155		Preliminary Instrument Instructions. *Principles of the 1–2–3 system of instrument flying assumed on the basis of a fixed power output; definitions, functions, and operation of the bank and turn indicator, air speed indicator, and procedures for correction of error.*
1–156		Installation of Bomb Hoists—The B–17 Series. *Method of installing bomb hoists in the B–17 series airplane, and the procedure for handling light and heavy bombs with the C–3 hoist.*
1–157		Aerial Navigation—Use of the E–6B Computer Face. *Use of the E–6B Computer, front face only. Logarithmic principle, scale reading, shift of decimals, problems in radius of action, speed-time-distance, true altitude, true airspeed, fuel consumption, use of scales for converting distance units.*
*1–158		Parachutes—Fitting and Adjusting Harness. *Method of adjusting the parachute harness to the wearer; the shoulder straps, breaststraps, leg straps, and other necessary tacking.*
1–159		Hydraulic System Units—Actuating Cylinders, Locking Devices and Motors. *Explains essential features of the actuating cylinder: double, dual, pivoted, and cannon charger cylinders. Shows cylinder installation on hydraulic brakes, special locking devices, gear-type and piston-type motors.*
1–160		Radiation. *Background material for weather students: black body radiation, Wein's Law, Stefan's Law, Kirchoff's Law, solar and terrestrial radiation, heat balance, temperature inversions and related fogs.*
1–161		Ignition Systems—Spark Plugs and Ignition Harness. *Ordinary and shielded plugs of mica and ceramic construction, purposes of hot and cold operating plugs, proper installation, high tension leads, and terminal clips. Shows shielded and unshielded ignition manifolds before and after installation on radial and in-line engines.*
1–162		Ignition Systems—Boosters, Switches and Typical Systems. *Necessity for booster units, their theory and operation. Shows off-on switches, A–8 and A–9 switches, B–4 and B–5 switches. Gives operating procedures for starting and testing; emphasizes safety precautions.*
1–163		Pitot-static Flight Instruments. *Airspeed tube, with Pitot tube, heater, and static chambers. Relates airspeed tube to airspeed indicator. Demonstrates barometric and thermal corrections of altimeter.*

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FS No.	Year released	Subject
1–164		Aircraft Engine Storage and Shipment. *Details of engine treatment: initial, temporary, and extended storage. Depicts preparation of engines for use after treatment. Animated drawings explain corrosion sources. Also shows humidity tests, care of accessories, and protective coverings.*
1–165		Harmonization of Guns and Sights. *Harmonization on a P–40 plane. Step by step demonstration and mathematical explanation of close range bore sighting, use of sight chart, lifting bar, jacks, bevel protractor, levelling lugs, reflector and plug.*
1–167		Checking Aircraft Cylinders. *Technical orders, precision tools, and procedures involved in checking cylinder, piston, rings, and valve parts.*
1–168		Propeller Anti-icer Equipment. *Installation, inspection, and maintenance of Pesco and Eclipse anti-icer equipment for aircraft propellers.*
1–169		Aircraft Carburetor. *Typical classifications of aircraft carburetors; diagrams their operating principles; points out maintenance and inspection procedures.*
1–170		Aircraft Engine Testing. *Block testing of aircraft engines as it relates to repair depots: duration of test, type of fuel, grade of oil, and test clubs. Also illustrates ground and flight testing.*
1–171		Martin Turret—Operation. *Operation of the Martin Upper Turret; the armament, including ammunition feeding mechanism.*
1–172		General Maintenance and Repair of Propellers. *Propeller maintenance which can be accomplished by first echelon activities.*
1–173		Aircraft Engine Control Systems. *Function, maintenance, and inspection of aircraft engine control systems: Throttle, mixture and fuel injector units, carburetor air heat control, supercharger, radiator and cowling shutters, spark and propeller controls.*
*1–174		Parachutes—Cleaning, Storage, and Shipment. *Proper method of cleaning, drying, storing, and shipping parachutes.*
1–175		Inductance. *Principle of electrical inductance, and types of electrical inductors.*
1–176		Capacitance. *Principle of electrical capacitance, and types of capacitances (condensers).*
1–177		Vacuum Tubes—Fundamentals. *Edison effect, electron emission, operation of the diode tube, triode, tetrode, pentode, special purpose tubes, and the cathode ray tube.*
1–178		Tires, Tubes and Wheels. *Types, and maintenance and inspection procedures.*
1–179		Drilling Practice—Drills, Grinding and Hand-Drilling. *Nomenclature and types of metal-cutting drills; types of grinders, methods of operation, and correct grinding for different purposes; portable drills.*
1–180		Drilling Practice—Power Drilling, Care of Drills, Safety Precautions. *Nomenclature of parts and operation of the drill press; care of drills; safety precautions for operators.*

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FS No.	Year released	Subject
1–181		Aircraft Engine Cooling. *Principles of aircraft engine cooling; construction of cooling systems, coolants; inspection procedures.*
1–182		Vacuum Tube Detectors. *Elements and principles of vacuum tube detectors: diode, bias, gridleak, heterodyne, and autodyne detectors.*
1–183		Ground Adjustable Propellers. *Nomenclature, construction, and methods of installing and inspection ground adjustable aircraft propellers.*
1–184		Aircraft Maintenance Inspection—Armament Other Than Guns. *Prescribed routine in making a preflight inspection of the operation of bomb bay doors, bomb releases, bomb racks, tow target mechanisms, and gun camera.*
1–185		Air Forces Supply System—Organization of Sub-Depot. *Organization, administration, necessary personnel, basic records, and warehousing procedure for the sub-depot.*
1–186		Air Forces Supply System—Contracting and Purchasing Section. *Functions of the sub-depot Contracting and Purchasing Section: details procedure for procurement by local purchase.*
1–187		Air Forces Supply System—Memorandum Receipts. *Explanation of purpose and use of Memorandum Receipt (A.C. Form 99).*
1–188		Air Forces Supply System—Receiving and Shipping. *Functions of the Receiving and Shipping Section of the subdepot: checking incoming shipments, noting shortages and damages, packing and checking outgoing shipments, and use of necessary forms.*
1–189		Camouflage of Aircraft and Airdromes. *The subject of camouflaging building, aircraft, trucks, supply dumps, runways, etc., is presented in color. Decoy runways are described; suggestions for dispersal of material; things to do and not to do within the environs of airdromes.*
1–190		Aircraft Engine Lubrication. *Purpose of aircraft engine lubrication as applied to both liquid and air-cooled engine systems; regulation of oil temperature; inspection and maintenance of lubrication systems.*
1–192		Fire Prevention Rules. *Rules for aircraft and Air Forces installations, under the following headings: general precautions; precautions in fueling; storage and use of inflammables; precautions in maintenance and inspection. Also types and uses of portable extinguishers.*
1–193		Maintenance Records and Reports—Part I. *Forms in Air Forces maintenance work: Nos. 41, 9, 15, 17, 23, 46, 49, 50, 51, 83, 83a, 54, 55, 58, 60a, 60b, 61, 81, 82, 99, 249, and IGD 1.*
1–194		Maintenance Records and Reports—Part II. *Forms used by the Air Forces for reporting and recording maintenance status and flight data of aircraft: Nos. 1, 1a, 41, and 41b.*
1–195		Vacuum Tubes—Rating and Testing. *Ratings: current and voltage, plate dissipation, plate resistance, amplification factor, and transconductance. It describes the following tube tests: short, emission, open, static transconductance, and dynamic transconductance. The virtual cathode is described.*

FS No.	Year released	Subject
1–196		Vacuum Tubes—Amplification Fundamentals. *Amplification as a term, shows some practical applications; the difference between a.f. and r.f. amplification, and classes of operation of vacuum tubes. Different methods of obtaining grid bias voltage, coupling methods, and push-pull operation of tubes.*
1–197		Radio Receivers. *Amplification, selectivity and fidelity and use of pentode tubes, coupling methods and manual gain control. Push-pull class A phase inversion and inverse feed back, loudspeakers, the superheterodyne system and photographs of various types of receiving sets are covered in this film.*
1–198		Airplane Mechanics' Hand Tools—Adjusting and Assembling Tools, Part II. *Proper identification and use of airplane mechanics' hand tools: screw driver, pliers, soldering coppers, blowtorch, screw and cotterpin extractors, valve stem fishing tools. (See also FS 1–340.)*
1–199		Air Forces Supply System—The Sub-Depot Requisition Section. *Duties of requisition section, procedure in handling AAF Form No. 102; use of Stock Lists; use of Stock Record Card; handling of stock on order; Stock Order form; working for "minimum balances"; making routine requisitions; proper days for ordering various classes; "Special" requisitions; purchases locally (AAF Form No. 97).*
1–200		Hydraulic Airplane Jacks. *Purposes, types, operation and maintenance.*
1–201		Soldering Practice—Part I. *Soldering equipment and materials; soldering copper, solders, heating sources, cleaning aids, fluxes.*
1–202		Soldering Practice—Part II. *Soldering process: preparing the soldering copper, preparing the work, applying the solder, safety precautions.*
1–203		Aerial Navigation—The Celestial Sphere. *Concept of the celestial sphere and defines the terms used in celestial air navigation.*
1–204		Ignition Systems: Magnetos—Part I, Magnet and Coil Systems. *Systems of high-tension rotating magnet-type magneto.*
1–205		Ignition Systems: Magnetos—Part II, Breaker and Distributor Systems. *Breaker and distributor system of the high-tension rotating magnet-type magneto.*
1–206		Ignition Systems: Magnetos—Part III, Types and Disassembly. *Double type, 8-pole type, polar inductor type; external features; disassembly; identification symbols.*
1–207		Ignition Systems: Magnetos—Part IV, Timing. *Timing gear ratios, compensating cam magnetos, coming-in speed.*
1–208		De-Icing Equipment. *Presents de-icing system units and their functions.*
1–209		Aerial Navigation—Time and Time Diagram. *The Sun and Aries as bases for measuring time; and the function of the Time Diagram. Defines and explains pertinent terms.*
1–210		Airplane Mechanics' Hand Tools—Abrasive Tools. *Types, nomenclature, use and care of abrasive tools; stresses safety precautions.*

FS No.	Year released	Subject
1-211		Electrical Armament Controls. *Operating principles and function of typical electrical armament controls on military aircraft.*
1-212		Aircraft Material—Non-Ferrous Metals. *Uses of non-ferrous metals in aircraft construction and maintenance.*
1-213		Fire Extinguishing Equipment. *Types, use, operation and maintenance of fire extinguishing equipment used on aircraft.*
1-214		Shielding and Bonding. *Purpose of shielding and bonding electrical connections on aircraft; tools used; methods used.*
1-215		Towing, Mooring and Handling Airplanes. *Towing, mooring, handling, jacking and hoisting airplanes.*
1-216		Cockpits and Cabins. *Aircraft cockpits and cabins; their purposes, types, compartments and accessories.*
1-217		Airplane Mechanics' Hand Tools—Penetrating and Threading Tools. *Tools used in penetrating and threading work; their identification, use, care and safety precautions.*
1-218		Airplane Mechanics' Hand Tools—Forming and Holding Tools. *Identification, use, care and safety precautions for holding and forming tools.*
1-219		Airplane Mechanics' Hand Tools—Measuring and Layout Tools. *Identification, care, use, and safety precautions.*
1-220		Martin Turret—General Maintenance. *Procedures for the Martin Power-operated gun turret (upper) original type.*
1-221		Hydraulic System Units—Reservoirs and Miscellaneous Equipment. *Purpose, construction and operation of reservoirs and miscellaneous equipment on the hydraulic system.*
1-222		Securing and Locking Devices Used in Airplane Maintenance. *Cotter pins, safety wire and lock nuts; their identification, tools required and methods of installation.*
1-223		A-2 Portable Photographic Laboratory. *Preparing for a mission; setting up in the field; internal arrangement.*
1-224		Glider Instruments—General. *Construction and servicing glider instruments.*
1-225		Air Forces Supply System—The Sub-Depot Warehouse. *System of storage of property in the sub-depot warehouse section.*
1-226		Hydraulic System Units—Power Pump and Hand Pump. *Purpose, construction and operation of power pump and hand pumps in hydraulic systems.*
1-227		Hydraulic System Units—Control Valves. *Hydraulic system control valves in selectors, wing flaps, landing gear and gun charger.*
1-228		Drilling Practices—Precision Drilling. *Installation of drill press, aligning the drill press tools, holding and positioning the work, and various uses of the drill press in precision work.*
1-229		Aerial Navigation—The Radio Compass. *Operation of the radio compass.*

FS No.	Year released	Subject
1-230		The Soldier's Qualification Card. *Preparation and use of the soldier's qualification card WD AGO Form 20.*
1-231		Aircraft Wiring Systems—Part I. *Types of aircraft electrical wiring systems, low current-low voltage wiring, blueprint symbols and aircraft wiring circuits.*
1-232		Aircraft Wiring Systems—Part II. *Methods of wire testing in aircraft electrical systems, preparation of cables, replacing defective wire in rigid harness.*
1-233		Hydraulic System Units—Pressure Control Valves and Relief Valves. *Purpose, construction, and operation of control valves and relief valves in the airplane hydraulic system.*
1-234		Hydraulic System Units—Brake Master Cylinders. *Purpose, construction and operation of the brake master cylinder in the airplane hydraulic system.*
1-235		Oxygen Equipment. *Description, use, operation and maintenance of airplane oxygen equipment.*
1-236		Air Forces Supply System—The Sub-Depot Warehouse Section: Receiving and Issuing of Property. *Procedures for receiving and issuing property in the sub-depot warehouse section, and explains the use of such forms as 100, 82, 104A, and 99.*
1-237		Airplane Landing Gear. *Function, types, operation, inspection and maintenance of airplane landing gear.*
1-238		Sperry Power Turret (Upper Local)—Operation and Maintenance. *Operation and adjustment of elevation limit stop, operation and adjustment of the fire cut-off unit, the electrical support and other adjustments and set up procedures.*
1-239		Terms Used in Photographic Optics. *Meaning of common optical terms encountered by the student; discusses focal plane, focal length, angle of field, angle of view, depth of field, lens speed and characteristics of lenses.*
1-240		Squadron Supply—Issue of Clothing to Enlisted Men. *Routine duties of the Quartermaster, Squadron Supply Clerk and Squadron Commanding Officer in issuing clothing to enlisted men; gives detailed directions for use of such forms as WD, AGO 35, QMC 409, AGO 32, QMC 499, and EXO-1.*
1-241		Glider Woodworking—Glues and Gluing. *Casein and synthetic resin glues, showing preparation, mixing, application and testing of casein glue, with particular reference to its use in glider woodworking.*
1-242		Glider Woodworking—Wood. *Structure, grain and defects of wood, and instructs glider mechanics students in the selection of wood suitable for glider repair.*
1-243		Martin Power Operated Gun Turret—Trouble-Shooting. *Possible sources of trouble for the following situations: motor generator fails to run, turret fails to operate with motor generators running, turret operates sluggishly, irregularly, or at improper speeds; illustrates proper seating of generator brushes.*
1-244		Radio Transmitters. *Development of the radio transmitter, its historical background, and the components of vacuum tube transmitters and their common use.*

FS No.	Year released	Subject
1-245		AC and DC Measuring Instruments. *Fundamental theory, construction, operation, use and care of AC and DC meters.*
1-246		Aircraft Radio Batteries. *Use and fundamental theory, construction and care of primary and secondary batteries as used in aircraft radio equipment.*
1-247		Reactance and Impedance. *Reactance and impedance with their relations to alternating current.*
1-248		Resonance. *Theory and common applications of resonance and resonant circuits in aircraft radio.*
1-250		Aerial Navigation—Vector Diagrams and Graphic Solutions. *Defines such navigational terms as: true heading, true course, track, true airspeed, ground speed, and drift. Illustrates graphic solution of typical problems.*
1-251		Airplane Brakes and Actuating Systems. *Purpose, operation, type, inspection and maintenance of airplane wheel brakes and actuating system with particular reference to the B-25 and B-26.*
1-252		Operational Instructions for the SCR-183. *Use of the SCR-183 set as installed in the BT-13 plane; shows location of various controls; explains tuning and elementary operation for the student pilot.*
1-253		Martin Power Operated Gun Turret—Inspections. *Inspections involved in maintenance and servicing of the Martin Power Operated Gun Turret, Upper, Original Type: Preflight, After-flight, 25-hour, 50-hour, and 100-hour.*
1-254		Filters. *Principles, applications and construction of low-pass filters, high-pass filters, bank-pass filters, and bank-stop filters as they are used in radio.*
1-255		Teletype Equipment: Mechanical Forces Used in the Six Functions—Part 1, General Operations. *Operations of functions of the Model 15 teletype page printer.*
1-256		Teletype Equipment: Mechanical Forces Used in the Six Functions—Part II, Line Feed. *Mechanical action of the line feed functions of the Model 15 teletype page printer.*
1-257		Aircraft Materials—Ferrous Metals. *Properties of metals with special reference to ferrous metals used in aircraft construction and maintenance.*
1-258		Aircraft Materials—Non-Metallic Materials. *Uses in aircraft construction and maintenance of such non-metallic materials as fabrics, plastics, safety glass, rubber, and wood.*
1-259		Aircraft Materials—Protective Coatings and Finishes. *Uses in aircraft construction and maintenance.*
1-260		Fundamentals of Arc Welding—Part I. *Circuits, equipment, striking on arc, and safety precautions.*
1-261		Hydraulic System Units—Brake Control Valves and Debooster Valves. *Purpose, construction and type of power brake control valves and brake debooster valves in the aircraft hydraulic system.*

FS No.	Year released	Subject
1–262		Measurement of Absolute and Differential Pressure—Part I. *Explanations of atmospheric, absolute and differential pressures, and methods of measuring them by means of mercury columns, aneroids, and diaphragms.*
1–263		Measurement of Absolute and Differential Pressure—Part II. *Principles of operation and use of manometers, and procedures for cleaning manometers and mercury.*
1–264		Sheet Metal Work—Developing Patterns by Triangulation. *Use of triangulation in developing patterns of irregular sheet metal objects.*
1–265		Maintenance Publications. *Nature and use of information contained in the AAF Regulations, Air Corps Circulars, Technical Orders, Handbook of Instruction, Stock Lists, and Book of Standards.*
1–266		Curtiss Electric Propeller (Standard Unit)—Disassembly of the Power Unit. *Disassembly of the power unit of the Curtiss Standard Unit Electric Propeller: power gear, brake, motor, speed reducer, and spiders.*
1–267		Power Transformers in Aircraft Radio. *Theory, construction and applications of power transformers as used in aircraft radio.*
1–268		Aerial Navigation—Motions of Celestial Bodies. *Planetary system, motions of the earth, generation of seasons; identifies the fixed navigational stars.*
1–269		Aerial Navigation—Introduction and Aids to Radio. *Navigational theory and use of radio compass RDF stations, radio range stations and radio marker beacons.*
1–270		Aerial Navigation—Radio Bearings. *True, relative and reciprocal bearings; method of determining true bearings; plotting radio bearings on the Mercator and DF charts.*
*1–273		Maintenance of the CG–4A Cargo Glider—Preflight Inspection. *Construction and use of the CG–4A cargo glider and its preflight inspections; flight instrument check, cockpit and cabin inspection, exterior inspection and operational check.*
1–274		Power Generators in Aircraft Radio. *Theory, construction and application of AC and DC power generators as used in aircraft radio.*
1–275		The Telephone Central Office Set TC–4—Assembly and Dismantling. *Assembling and dismantling the TC–4 set: assembling switchboard BD–95 and operator's seat, assembling panel BD–97, connecting switchboard to panel, and procedures for dismantling and packing.*
1–276		Glider Covering Blanket Method. *Method used in making and applying a blanket-type cover to a glider wing structure.*
*1–277		Repair of Glider Fabric Covers. *Methods of repairing damaged glider fabric covers; repairing holes and tears under 3 inches, repairing tears that require sewing, applying the finish, sewn patch repair, replacing panels and interlacing.*
1–278		Airplane Mechanics' Handtools—Punching and Cutting Tools. *Identification, use, care and safety practices for punching and cutting tools used by airplane mechanics—punches, saws, chisels, snips, and shears.*

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FS No.	Year released	Subject
1–279		Aircraft Safetying—Using Securing and Locking Devices. *Proper methods of installing cotter pins, lock nuts, check nuts, safety wire, and other devices used in aircraft safetying.*
1–280		Direction Finding Procedure. *Procedure used by aircraft in obtaining radio bearings and radio fixes from direction finding (D/F) stations.*
1–281		Aircraft Landing Code. *Method of handling confidential weather reports by means of the Aircraft Landing Code (ALCO).*
1–282		Marker Beacon Receiver. *Use, operation and maintenance of marker beacon receiving equipment (RC–43–A) as used in military aircraft.*
1–283		Interphone Equipment R–36. *Operation of aircraft interphone equipment R–36.*
1–284		QDM Procedure. *Procedure for the pilot and the radio operator.*
1–285		Oxygen Cutting—Part I. *General uses of oxygen cutting equipment, and procedures for hand-operated and machine-operated torches.*
1–286		Oxygen Cutting—Part II. *Factors affecting quality of the cut, aids in making various types of cuts, and the cutting of alloy steel and cast iron.*
1–287		Lathes—General. *Types of lathes, their essential features, uses and safety precautions.*
1–288		Teletype Equipment: Mechanical Forces Used in the Six Functions—Part III, Letters Shift and Figures Shift. *Mechanical action of the letters shift and figures shift functions of the Model 15 teletype page printer, and the operation of the sixth vane.*
1–289		Curtiss Electric Propeller (Standard Unit)—Disassembly of Hub and Blades. *Disassembly of the hub, slip ring, brush block, and both hollow steel and aluminum alloy blades.*
1–290		Hamilton Standard Hydromatic Propeller—Assembly and Adjustment of Dome and Distributor Valve. *Assembly and adjustment of dome and distributor valve.*
1–291		Preflight Inspection of the A–24—The Crew Chief. *Procedure followed in preflight inspection before starting the engine, during engine warm-up, and after engine warm-up.*
1–292		Dead Weight and Master Gage Testers—Part I. *Principles of hydraulic pressure and its use in the operation of the American dead weight tester.*
1–293		Dead Weight and Master Gage Testers—Part II. *Operation and use of amthor and star brass dead weight testers and master gage testers.*
1–294		Hamilton Standard Hydromatic Propeller—Disassembly of Hub and Blades.
1–295		Hamilton Standard Hydromatic Propeller—Disassembly of Dome and Distributor Valve. *Procedures to be followed in the disassembly of the dome and distributor valve of the Hamilton Standard Hydromatic propeller.*

FS No.	Year released	Subject
1–296		Expansion and Contraction in Welding. *Causes and effects of expansion and contraction, and methods of reducing and counteracting them.*
1–297		Maintenance of Arc Welding Machines. *Preliminary inspection, cleaning, lubricating and care of brushes and commutator in arc welding machines.*
1–298		Fundamentals of Arc Welding—Part II. *Making of an arc weld, and the factors determining its quality*
1–299		Hamilton Standard Hydromatic Propeller—Assembly and Adjustment of Hub and Blades. *Procedures followed in assembling and adjusting the hub and blades of the Hamilton Standard Hydromatic propeller.*
1–300		Air Forces Supply System—Warehouse Section: Handling Inflammable Property. *Warehouse storage and handling of inflammable items, including procedures for maintaining and issuing stocks of aviation gasoline and oils.*
1–301		Self-Sealing Fuel Tanks. *Construction, inspection, removal and installation, maintenance and storage of self-sealing fuel tanks.*
1–302		Structural Failures in Airplanes. *Causes of structural failures of all-metal combat type aircraft.*
1–303		Martin Power Operated Gun Turret—Removal, Installation and Harmonization. *Procedures for removal, installation, harmonization of sight and guns, and adjustment of sight.*
1–304		Glider Insignia and Code Markings. *Method of lay-out and application of glider insignia, code markings, and color code.*
1–305		Ignition Timing the R–2800 Engine. *Procedure used in setting crankshaft, distributor rotor and magnetos in timing the ignition system of the R–2800 engine.*
1–306		Ignition Timing the R–2600 Engine. *Procedure used in setting the crankshaft, distributor rotor and magnetos in timing the ignition system of the R–2600 engine.*
1–307		Sperry Power Turret—Installation of Guns and Sights. *Installation of guns and accessories, alignment of guns, installation and harmonization of the K–3 sight.*
1–308		Preflight Inspection of the B–17F—Flexible Guns. *The armorers' work in the preflight inspection of the major armament positions on the B–17F.*
1–309		Inspection of Hydraulic Fluids. *Proper methods of selection, handling, storage and issue of hydraulic fluids; includes explanation of basic operations and inspection of hydraulic systems.*
1–310		Sperry K–3 Sight—Part I, Introduction and Operation. *Automatic computing sight; explains the operation of the variable speed unit, differential drives, vertical prediction unit, cosine eg unit, lateral prediction unit, the various stops and clutches, three-dimensional drives, and the adding differentials.*

FS No.	Year released	Subject
1–312		Sperry K–3 Sight—Part III, Adjustments. *Adjusting the light gate, adjusting speed of motor, adjusting the azimuth backlash spring, adjusting sight for parallax, and dial settings.*
1–313		Sperry K–3 Sight—Part IV, Installation and Harmonization. *Detailed procedure for installing and harmonizing the Sperry K–3 automatic computing sight.*
1–314		Sperry K–3 Sight—Part V, Disassembly, Inspection and Maintenance. *Disassembly procedures for the Sperry K–3 sight, maintenance involved in 50-hour inspection and in making minor replacements.*
1–315		Aeroproducts Propeller—Part I, Disassembly of Regulator. *Disassembly of Model A6325–C1 regulator.*
1–316		Aeroproducts Propeller—Part II, Disassembly of Regulator Subassemblies. *Disassembly of regulator Model A6325–C1 subassemblies.*
1–317		Aeroproducts Propeller—Part III, Disassembly of Hub and Blades. *Detailed disassembly of hub and blades.*
1–318		Air Forces Supply System—The Sub-Depot Inventory Section. *Use of Inventory Record card, Form 101–A; and procedures to be followed in taking a physical inventory of the sub-depot.*
1–319		Aircraft Tubing—Installation, Color Identification and Line Tracing. *Purpose, fitting, construction, installation, color identification and line tracing of aircraft tubing.*
*1–320		Maintenance of the CG–4A Cargo Glider—Daily Inspection. *Various checks made in the daily inspection of the CG–4A Cargo glider: interior, exterior, and operating inspections.*
1–321		Airplane Cockpit Instruments and Controls—The BT–13A Basic Trainer. *Name, function and location of cockpit instruments in the BT–13A basic trainer.*
1–322		Aerial Navigation—Interpretation of a Single "Lop." *Use of the Single Line of Position in aerial navigation.*
1–323		Glider Loading and Unloading of a Jeep. *Directions and safety precautions for loading and unloading of the Jeep (¼ ton truck 4 x 4) in the CG–4A cargo glider.*
1–326		Sperry Power Turret—General Operation. *Detailed explanation of the operation of the Sperry Power Turret (Upper Local).*
1–327		Bomb Bay Fuel Tanks—Installation and Removal on the B–25. *Installation and removal of the bomb bay fuel tank on the B–25 series airplanes.*
1–328		Radio Frequency Oscillators—Part I, The Hartley Oscillator. *Fundamental theory of radio frequency oscillators and the operation of the Hartley oscillator.*
1–329		Radio Frequency Oscillators—Part II, Electron-Coupled and Crystal Oscillators. *Operation of the electron-coupled and crystal oscillators, and the applications of radio frequency oscillators.*

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FS No.	Year released	Subject
1-330		Preflight Inspection of the Mustang (A-36 and P-51)—The Radio Mechanic. *Location of standard radio equipment on the Mustang (A-36 and P-51) airplane; procedure for preflight inspection of this equipment.*
1-331		Preflight Inspection of the Thunderbolt (P-47)—The Radio Mechanic. *Location of standard radio equipment on the Thunderbolt (P-47) airplane, and shows procedure for preflight inspection of this equipment.*
1-332		Preflight Inspection of the Marauder (B-26B)—The Radio Mechanic, Part I. *Location of radio equipment, inspection of the antennae, and checks of radio equipment on the pilot's and co-pilot's compartment.*
1-333		Preflight Inspection of the Marauder (B-26B)—The Radio Mechanic, Part II. *Inspection of radio equipment at the following positions: radio operator, first bomb bay, second bomb bay, turret gunner, cameraman, and tail gunner.*
1-334		Preflight Inspection of the Marauder (B-26B)—The Radio Mechanic, Part III. *522-A installation, and presents location inspection of all components.*
1-335		Telephone Central Office Set TC-4—Operation. *Line connections to the TC-4 set, and the operating procedure for this set.*
1-336		Meissner Receiver Kit—Testing and Mounting the Parts. *Method used in mounting and testing parts of the Meissner AC-DC superheterodyne receiver kit, Model 10-1191.*
1-337		Signal Lamp C-3A. *Description and operation procedure for the C-3A signal lamp as used in aircraft for visual identification and communication.*
1-338		Safety Rules and Policies. *Necessity for safety rules and policies applicable to all personnel engaged in shop, hangar and line work.*
1-339		Squadron Supply—Requisitioning of Organization Equipment and Supplies. *Forms and procedures used in requisitioning Tables of Equipment property, Table of Allowances property, expendable property, and replacement of organizational equipment.*
1-340		Airplane Mechanics' Hand Tools—Adjusting Assembling Tools, Part I. *Proper identification and use of wrenches; demonstrates their care and safety precautions. (See also, FS 1-198.)*
*1-341		Parachutes—Repair, Testing and Overhaul. *Parts of a parachute which may require repair; illustrates drop-testing; and designates those parts which must be replaced when defects appear.*
1-342		Aircraft Fuel Systems—Part III. *Basic principles of pressure fuel systems on 2-engine aircraft.*
1-343		Preflight Inspection of the P-51—The Crew Chief. *Duties of the crew chief in making the preflight inspection of the P-51 airplane.*
1-344		Type D-1 Ground Heater—Part I, Operation. *Type D-1, ground heater (Stewart-Warner Model 782-Z-1)—its construction, uses and operation.*

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FS No.	Year released	Subject
1–345		Type D–1 Ground Heater—Part II, Maintenance and Service. *Inspection and field maintenance, trouble-shooting and preparation for storage for the Type D–1 ground heater (Stewart-Warner Model 782–Z–1).*
1–346		Hand Operated Heater (Stewart-Warner 796–A)—Part I, Operation. *Specifications, principles of operation, uses and operational procedures for the Stewart-Warner Model 796–A hand crank heater.*
1–347		Hand Operated Heater (Stewart-Warner 796–A)—Part II, Disassembly, Service and Reassembly. *Procedures followed in the disassembly, cleaning and reassembly of the Stewart-Warner Model 796–A hand crank heater.*
1–348		Teletype Equipment: Mechanical Forces Used in the Six Functions—Part IV, Upshift-On-Space. *Mechanical action of the upshift-on-space function of the teletype printer.*
1–349		Milling Machines—General, Part I. *Classes, types and uses of milling machines.*
1–350		Refueling and Servicing B–25 and B–26 Airplanes. *Precautions and procedures observed in refueling and servicing B–25 and B–26 series airplanes.*
1–351		Type D–1 Ground Heater—Part III, Overhaul. *Procedures for overhauling engine, carburetor and heating units of the Stewart-Warner Type D–1 ground heater.*
1–352		Type D–1 Ground Heater—Part IV, Modifications to be Incorporated During 1943 Summer Overhaul. *Purpose and methods of making certain modifications to the Type D–1 Stewart-Warner ground heater during its summer overhaul.*
1–353		C–3 Camera—Part I, Setting Up for Use On a Tripod. *Loading of holders, going to location, setting up the tripod correctly, placing the camera on the tripod head, opening the camera, and getting set to photograph the subject.*
1–354		C–3 Camera—Part II, Operation On a Tripod. *Operation of the C–3 camera on a standard crown tripod head: framing the picture, focusing, setting diaphragm stop, exposing with extended bellows, and using a wide-angle lens.*
1–355		C–3 Camera—Part III, Hand-Held Operation. *Methods of composing the picture and focusing, in the hand-held operation of the C–3 camera, use of the focal Plane Shutter.*
1–356		C–3 Camera—Part IV, Synchronized Flash Equipment. *Assembly and operation of synchronized flash equipment for the C–3 camera.*
1–357		Aircraft Fuel Pumps. *Construction, operation, maintenance, and inspection of all types of aircraft fuel pumps.*
1–358		Heating and Ventilating Systems. *General construction and operation of four types of aircraft heating systems: steam, glycol hot air, exhaust manifold, and gasoline-burning.*
*1–359		Synchronizing Hydromatic Propeller Controls on B–25 Airplanes. *Installation and adjustment of governor and control linkage of the Hamilton hydromatic propeller on the B–25 airplane.*

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FS No.	Year released	Subject
1–360		Type F–1 Utility Heater—Part I, Uses and Operational Procedure. *Herman-Nelson self-powered Type F–1 self-powered utility heater: typical uses, operation of engine, and operation of burner.*
1–361		Type F–1 Utility Heater—Part II, Maintenance and Test Procedures. *Maintenance of engine and heater, and test procedures for the Type F–1 self-powered utility heater.*
1–362		DC Motors in Aircraft Radio. *Theory, construction and application of DC motors as used in radio power equipment.*
1–363		Dynamotors in Aircraft Radio. *Construction, testing and uses of aircraft radio dynamotors.*
*1–364		Radio Frequency Power Amplifiers. *Operation, neutralization and tuning of r.f. power amplifiers, and their use as frequency multipliers.*
1–365		Preflight Inspection of the A–24—The Radio Mechanic. *Location of standard radio equipment on the A–24 (Dauntless) airplane and shows procedure for its preflight inspection.*
1–366		The Carbon Microphone. *Theory and operation of the carbon microphone.*
1–367		Meissner Receiver Kit—Wiring and Aligning. *Wiring and aligning of the Meissner receiver kit, Model 10–1191.*
1–368		Retracting Mechanisms of the B–25 and B–26 Series Airplanes. *Structural reinforcements, landing struts, bracing and operation of retracting and locking mechanism of the B–25 and B–26 series airplanes.*
1–369		Holley Automatic Carburetors—Part II. *Installation, inspection, storage and maintenance of the Holley automatic 1375 and 1685 downdraft carburetors, Models H and HA.*
1–370		Generators and Rotary Inverters in B–25 and B–26 Series Airplanes. *Principles of operation, use and location of generators and inverters in the B–25 and B–26 series airplanes.*
1–371		Sperry Power Turret—Installation and Inspection. *Procedures for installing the Sperry upper local power turret; the various inspections—pre-flight, post-flight and 50-hour.*
1–372		Squadron Supply—Certificate of Expenditure (Ammunition). *Procedure for drawing small arms ammunition for range practice; preparing Certificate of Expenditure for ammunition used.*
1–374		Caribbean Air Force Weather Code. *Explanation of the CAF weather code; its use in handling confidential weather reports.*
1–375		Preflight Inspection of the B–17F—The Radio Mechanic, Part I. *Location of standard radio equipment on the Flying Fortress (B–17F) airplane, and procedure for pre-flight inspection of this equipment.*
1–376		Preflight Inspection of the B–17F—The Radio Mechanic, Part II. *Inspection of radio equipment at the following points: bombardier, navigator, forward gunner, radio operator, radio crew, waist gunners, and tail gunners; procedure for concluding the pre-flight inspection.*
1–377		Airplane Cockpit Instruments and Controls—Primary Trainer. *Name, function and location of the cockpit instruments in the PT (primary trainer).*

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FS No.	Year released	Subject
1-378		Airplane Cockpit Instruments and Controls—Advanced Single-Engine Trainer. *Name, function and location of cockpit instruments in the AT-6 (advance single-engine trainer).*
1-379		Classification of Photographic Lenses. *Designed to provide a summary of the principle types of photographic lenses employed by the Army Air Forces.*
1-380		Glider Woodworking Tools—Hand Tools. *Classification, nomenclature, care, use, and storage of woodworking hand tools.*
1-381		Induction Systems and Gear-driven Superchargers on R-2600 and R-2800 Engines. *Principles and practices as applied to aircraft engines; function and operation of each unit of the induction systems in B-25 and B-26 airplanes; troubles in the systems; construction and operation of supercharger clutches, and clutch troubles.*
1-382		Preflight Inspection on B-25 and B-26 Induction, Fuel and Oil Systems. *Inspection of the fuel, oil and induction systems of the B-25 and B-26 series airplanes.*
1-383		Take-offs and Landings in Primary Training—Take-offs. *Rules and precautions to be followed in take-offs; designed for the primary flying student.*
1-384		Take-offs and Landings in Primary Training—Landings. *Rules and precautions to be followed in landings; common errors and their corrections; designed for the primary flying student.*
1-385		25-hour Inspection of BT Engines. *Inspection to be made on the BT-13, BT-13A, and BT-15 new or overhauled engines between 20 and 30 hours after installation.*
1-386		Nomenclature of the Airplane. *Basic parts of an airplane, as they apply to the study of aircraft recognition.*
1-387		Preflight Inspection of the B-17F—The Lower Turret. *Pre-flight visual and operational checks to be made on the B-17F Sperry lower ball turret—turret, K-4 sight, guns, ammunition containers and oxygen systems.*
1-388		Valve Clearance Adjustment on R-2600 and R-2800 Engines. *Procedure and purpose of valve clearance adjustment on R-2600 and R-2800 engines, precautions, checks and tools required.*
1-389		Jacking and Hoisting B-25 and B-26 Series Airplanes. *Location of jacking points, procedures in raising airplanes with jacks, use of shoring and cribbing, precautions concerning loading and balance during hoisting, and use of tail stand when raising airplanes.*
1-390		Flexible Machine Gun Mounts and Adapters. *Installation and operation of the Bell E-11 and Edgewater E-10 flexible machine gun mounts.*
1-391		Bourdon Tube Instruments—Part I, Operation. *Principles of operation of Bourdon tube instruments, and the mechanics of Bourdon gages used in aircraft.*
1-392		Preflight Inspection of the A-36—The Crew Chief. *Crew chief's duties in the preflight inspection of the A-36 airplane.*

FS No.	Year released	Subject
1-393		Aircraft Fuel Systems—Part II, Pressure Systems for Diaphragm Carburetors. *Vapor lock, its causes and prevention; auxiliary fuel pumps; turbosupercharger, and combat safeguards.*
1-394		Gas Welding Technique. *Preliminary procedure, gas welding with and without a filler rod, and forehand and backhand gas welding.*
1-395		Aircraft Fuel Systems—Part I, Gravity Systems and Pressure Systems for Float-Type Carburetors. *Function and operation of gravity systems and pressure systems for float-type carburetors.*
1-396		Bourdon Tube Instruments—Part II, Inspection, Maintenance and Disassembly. *Service inspection, bench testing equipment, tests, disassembly, and general inspection and maintenance for Bourdon tube instruments.*
1-397		Bourdon Tube Instruments—Part III, Adjustment and Assembly. *Ranging Bourdon tube gases, cause of curve errors, adjustment of Bourdon tube pressure gages, and assembly of Bourdon tube gages.*
1-398		Inspection and Maintenance of B-26 Hydraulic Systems—Part I, Power Pressure Control and Brake Sections. *Inspection and maintenance of power, pressure control and brake sections of the hydraulic systems of the B-26 B and C series airplanes.*
1-399		Inspection and Maintenance of B-26 Hydraulic Systems—Part IV, Emergency Systems. *Inspection, maintenance and trouble-shooting on the hydraulic, pneumatic and mechanical emergency systems on the B-26 and C series airplanes.*
1-400		Modulation. *Principles of modulation and the development forms in aircraft radio.*
1-401		Materials Used in Fabric Coverings. *Types and identification of materials used in fabric coverings of gliders.*
1-402		Adjustments of B-25 and B-26 Induction, Fuel and Oil Systems Control Linkages. *Control linkages of induction, fuel and oil systems on B-25 and B-26 airplanes—their locations, adjustments, and inspection.*
1-403		Oil Systems on B-25 Series Airplanes. *Location, operation and maintenance of oil system units on B-25 series airplanes.*
1-404		Teletype Equipment: Mechanical Forces Used in the Six Functions—Part V, Signal Bell. *Mechanical action of the signal bell function of the model 15 teletype page printer.*
1-405		Electric Resistance Welding. *Types of resistance welding, auxiliary equipment used in spot welding, factors determining quality of weld, and maintenance of resistance welding machines.*
1-406		Welding Joints. *Methods employed for the various types of welded joints—butt, lap, tee, edge, and corner*

FS No.	Year released	Subject
1–407		The K–21 Aircraft Camera—Part 1, Installation. *Installation of the K–21 aircraft camera in B–17 and B–24, using A–17 camera mount; installation of heater unit and filter, how to make the necessary power connections.*
1–408		The K–21 Aircraft Camera—Part 2, Loading and Operation. *Loading of the K–21 aircraft camera; operation of the various controls.*
1–409		Preflight Inspection of the B–17F—Upper Local Turret. *Visual and operational checks to be made on the upper local turret during the preflight inspection of the B–17F.*
1–410		Teletype Equipment: Mechanical Forces Used in the Six Functions—Part VI, Carriage Return. *Mechanical action of the carriage return function of the model 15 teletype page printer.*
1–411		Aerial Navigation—Aerial Sextant Type A–10. *Description, adjustment and use of the Type A–10 aerial sextant.*
1–413		Aerial Fixed Gunnery: Analysis of the Sighting Problem—Part I, Range Estimation and Sight Alignment. *Illustrates range estimation and sight alignment in aerial fixed gunnery.*
1–414		Camouflage in the Field. *Elementary discussion of camouflage—its purpose and methods.*
1–415		The K–24 Aircraft Camera—Part I, Shutter Installation and Loading of Magazine. *Illustrates the procedures for installing shutter curtains and loading film magazine on the K–24 aircraft camera.*
1–416		Photographic Emulsions. *Various classifications of photographic emulsion and their major characteristics.*
1–417		Sperry Lower Ball Turret—Functioning of Parts. *Functioning of principal parts of the Sperry lower ball turret, including mechanical action, electrical circuits, oxygen system, and fire cut-off unit.*
1–418		Introduction to Airplane Structures. *Types of U. S. Army airplanes and their designations, principal structural units and insignia and markings. (Revision of FS 1–10.)*
1–419		Slide Rule Operation and Application—Part I, Multiplication and Division. *Basic operation of the slide rule; how it is used for solving multiplication and division problems.*
1–420		Exact Camera Gun Assessor. *Method of using the exact camera gun assessor in determination of results obtained in G.S.A.P. camera guns mounted in fixed gun aircraft. Setting up the assessor, zero shadow setting, calculation of model shadow range, procedure for assessing film, determination of allowance for deflection, and use of the assessor with combat film.*
1–422		Aerial Navigation—Secondary Uses of the Astro-Compass. *Use of the astro-compass to determine deviation correction using the astrograph, to steer a required heading, and to identify a star.*
1–423		The E–6B Computer—Solution of Wind Triangle. *Vector face of the E–6B computer, rules for using the computer, and solution of typical problems.*

FS No.	Year released	Subject
1–424		The E–6B Computer—Determination of Wind. *Method of determining wind and ground speed by double drift method and by drift on two headings.*
1–425		Traffic Flying in Primary Training—Flying a Normal Pattern. *Traffic for primary training. Includes leaving traffic, entering traffic, locating base leg and locating key position.*
1–426		Aerial Fixed Gunnery: Analysis of Sighting Problem—Part 2, Angular Deflection Allowance. *Effect of range, bullet velocity and target speed on deflection angle; using mph value of the ring sight; effect of angular deflection allowance.*
1–427		Removing Old Covers and Preparation of Glider Structures. *Method of removing old fabric covers and procedures for preparing the glider structure for re-covering.*
1–428		Parallel Operation of Generator Systems on B–25 and B–26 Series Airplanes. *Principles of paralleling generator systems on twin-engine aircraft, with particular reference to B–25 and B–26 airplanes.*
1–429		Errors in Bombing—Part 1, Synchronous Bombing. *Errors and their corrections in disc setting for synchronous bombing—settings for range, course, trail or air speed, true vertical and various bubble errors.*
1–430		Errors in Bombing—Part 2, Fixed-Angle Bombing. *Points out and corrects certain errors in fixed-angle bombing; includes errors in altitude, speed and trail setting.*
1–431		The N–3A Gun Sight. *Function, operation, installation and alignment, adjustments, inspection, and maintenance of the N–3A fixed gun sight.*
1–432		Aerial Fixed Gunnery—The Gun Sight. *Discussion of types of gun sights, use of the ring sight in aerial gunnery, principles of the optical sight, and use of the N–3A fixed gun sight.*
1–433		The K–24 Aircraft Camera—Part 2, Installation and Operation. *Procedure for attaching the film magazine, attaching heating and filter units, mounting camera in B–17 and B–24, and making the necessary connection to place the camera in operation.*
1–434		The Atmosphere. *Designed to acquaint the student with the composition of the atmosphere and the distribution of the various elements with altitude. In color.*
1–435		K–20 and K–25 Aerial Cameras. *Loading, operating and unloading procedures for K–20 and K–25 aerial cameras.*
1–436		Fuel Systems on the B–26 Series Airplane. *Location, operation and maintenance of fuel system unit on the B–26 B and C series airplanes.*
1–437		Slide Rule Operation and Application—Part 2, Powers and Roots. *Method of finding powers and roots of numbers by use of the slide rule.*
1–438		Slide Rule Operation and Application—Part 3, Solving Special Basic Problems. *Methods of solving certain special basic problems by use of the slide rule. Includes problems involving fractional powers or exponents, and area and circumference of a circle.*

FS No.	Year released	Subject
1–439		Flexible Hose. *Purpose, installation and inspection of flexible rubber fuel and oil hose on aircraft.*
1–440		The Sperry K–4 Sight. *Structure, installation and harmonization of the Sperry K–4 automatic computing sight. Points out ways in which it differs from the K–3 sight.*
1–441		Operation of the Type B–5 Film Developer. *Instruction for developing film in the Type B–5 film developer.*
1–442		Feathering Hydromatic Controllable Propellers on the B–24 Airplane. *Necessity for feathering the propeller, and the procedures for emergency feathering and for unfeathering on the B–24 airplane.*
1–444		Trouble-shooting R–2600 and R–2800 Engines. *Procedures followed in determining malfunctions of the various power plant systems of the R–2600 and R–2800 engines.*
1–445		Air Traffic Rules. *Regulations which govern operation of AAF aircraft flying in the continental United States, with flying safety as the goal. Describes detailed flight procedures on a typical flight from New York City to Hendricks Field, Fla.*
1–446		Aeroproducts Propeller—Part IV, Assembly and Adjustment of Regulator Sub-Assemblies. *Detailed procedures for assembly and adjustment of Model A6328–C1 regulator sub-assemblies, including governor, pressure control valve and filter, oil pump and regulator gear, and adapter ring.*
1–447		Intervalometer B–3A—Disassembly and Reassembly. *Detailed maintenance procedures for disassembly and reassembly of the B–3A intervalometer used on aerial cameras.*
1–448		Aircraft Engine Oil Pumps. *Construction, location and operation of aircraft engine oil pumps, using the B–25 and B–26 airplanes as examples.*
1–449		Assembly Procedures on the R–2600 Engine. *Pre-oiling, cautions and procedures in assembling major sections and accessories of the R–2600 engine.*
1–450		Assembly of Reconnaissance Strips. *Detailed procedure for the assembly of photographic reconnaissance strips; includes straight line method of control, mounting with gum arabic, and other procedures for assembly and mounting.*
1–451		Oil Temperature Regulators and Control Valves. *Types, locations and operation of oil temperature regulators and control valves of the oil systems on B–25 and B–26 airplanes.*
1–452		The B–17 Airplane—Replacing Starters. *Common causes of starter troubles, and proper method of replacing G–6 starters on the B–17 airplane.*
1–453		Sperry Lower Ball Turret—General Operation and Installation. *Detailed explanation of procedures for operating the Sperry lower ball turret; shows installation of ring gear and turret in B–17.*
1–454		Types of Fuel Servicing Equipment. *Principal types of fuel servicing and transporting vehicles used by the Army Air Forces.*
1–455		Staff Duties in Air Force Units. *Principal functions of group and squadron staff officers.*
1–456		Administrative Orders for Air Force Units. *Component parts of an Administrative Order.*

FS No.	Year released	Subject
1–457		Setting up the SCR–634 in the Field. *Procedures for unpacking and setting up the SCR–634 unit in the field.*
1–458		Elementary Electrical Trouble Shooting. *Instruments and methods used in elementary electrical trouble shooting.*
1–459		The B–17 Airplane—Inspection and Maintenance of the A–2 Life Raft. *Inspection and maintenance of the A–2 life raft used on the B–17 airplane, including 6-month inspection, inflation test, and packing the life raft in the airplane.*
1–460		The B–17 Airplane—Alfite Fire Extinguishing System. *Operation, maintenance and inspection of the Alfite Fire extinguishing system on the B–16 airplane.*
1–461		Introduction to the Link Trainer. *History of the Link Trainer; compares Link Trainer with an airplane; axes of the trainer and control of movement about axes; shows how the trainer is maneuvered.*
1–462		The B–17 Airplane—Hydraulic Systems. *Location, description, and maintenance of the B–17 hydraulic systems.*
1–463		The B–17 Airplane—Functional Testing and Cleaning the Glycol System. *Functional testing and cleaning of the glycol heating system used on the B–17 airplane.*
1–464		Preflight Inspection of the B–24 Airplane—The Crew Chief. *Preflight checks on the B–24; before starting engines, during warm-up, and after engine warm-up.*
1–465		Preflight Inspection of the B–25 Airplane—The Crew Chief. *Preflight checks on the B–25; before starting engines, during engine warm-up and after engine warm-up.*
1–466		The Five-unit Code and its Use in Teletype. *General principles of the five-unit permution code and its use in teletype transmission.*
1–467		Intervalometer B3–A—Cycle of Operation. *Cycle of operation of the Type B3–A intervalometer used to operate aerial cameras.*
1–468		The Clock System of Target Identification. *To acquaint combat crews with the standardized clock system of designating the position of approaching aircraft.*
1–469		Safety in Handling Firearms—Part I, Machine Guns and Sub-Machine Guns. *Safety precautions for the handling of aircraft machine guns and Thompson sub-machine guns.*
1–470		Safety in Handling Firearms—Part II, Automatic Pistol, Carbine and Shotgun. *Safety precautions for the handling of .45 caliber pistol, .30 caliber carbine, and the pump shotgun.*
1–471		Preflight Inspection of 37–mm Cannon. *Preflight inspection procedures for the 37-mm aircraft cannon.*
1–472		Repair of Exhaust Manifolds. *Repair procedures for aircraft exhaust manifolds.*
1–473		The Sperry Bombsight—Part I, Test Preliminary to Overhaul.
1–474		The Sperry Bombsight—Part II, Disassembly, Inspection and Maintenance.
1–475		The Sperry Bombsight—Part III, Reassembly.
1–476		The Sperry Bombsight—Part IV, Final Test and Calibration.

FS No.	Year released	Subject
1–477		The Sperry Bombsight—Part V, Common Malfunctions.
1–479		Fundamentals of Gas Welding.
		Gas welding flame and its uses; gas welding equipment; safety precautions.
1–480		Assembly Procedures on the R–2800 Engine.
		Pre-oiling, cautions and procedures in assembly of some of the major sections and accessories of the R–2800 engine.
1–481		The B–17 Airplane—Generator Voltage Regulation.
		Procedure for paralleling B–17 aircraft generators.
1–482		25-hour Inspection of the R–1820–97 Engine.
		Steps in the 25-hour inspection of the R–1820 engine.
1–483		Disassembly Procedures on the R–2600 Engine.
		Procedures for disassembling major sections of the R–2600 engine.
1–484		The B–17 Airplane—Inspection of Supercharger Type B–2.
		Procedures for performing various inspections on type B–2 supercharger on B–17 airplane.
1–485		The B–17 Airplane—Oil System.
		Principles of operation of the B–17 oil system, and location and function of the various units in the system.
1–486		Operation of the Type C–1 Ground Camera.
		Procedure for setting up and operating the Type C–1 Eastman ground camera.
1–487		Demonstration of Gyroscopic Principles.
		Gyroscopic principle as it applies to the aircraft instrument.
1–488		The B–17 Airplane—Fuel System.
		Location and function of the various fuel system units in the B–17 airplane.
1–489		Self-synchronous Instruments—Autosyn Instruments.
		Installation, operations, and application of autosyn self-synchronous aircraft instruments.
1–490		Self-synchronous Instruments—Selsyn Instruments.
		Installation, operations, and application of aircraft selsyn self-synchronous instruments.
1–491		Squadron Supply—Determination of Responsibility for Damaged, Destroyed and Lost Property.
		General use, preparation and distribution of the forms used in determination of responsibility for damaged, destroyed, and lost property.
1–492		The ANB–3 Intervalometer for Bombardment Missions.
		Construction, function, wiring diagrams, operation timing and adjustment of the ANB–3 intervalometer used for release of bombs.
1–493		Preflight Inspection of the B–17—The Crew Chief.
		Duties of the crew chief in a typical preflight inspection of a B–17 airplane.
1–494		Lathes—Operation.
		Speeds and feeds, spindle, carriage and cross slide, compound rest and tailstock.
1–495		Maintenance and Repair of Gas Welding Equipment.
		Maintenance and repair procedures on single-stage regulators, two-stage regulators, torches, and hose connections.
1–496		Introduction to Gyro Instruments—The Vacuum System.
		Operation of the vacuum system used in gyro instruments.
1–497		Airplane Cockpit Instruments and Controls—Advanced Multi-engined.
		Name, function and location of the cockpit instruments in the AT–9 airplane.

FS No.	Year released	Subject
1–498		Responsibilities of an Aircraft Commander. *Responsibilities of an aircraft commander (heavy bomber); his responsibilities on the ground and in flight, with respect to the safety and efficiency of his crew; emphasizes the necessity for knowing the duties and capabilities of each member of the crew.*
1–499		Engineering Section of an Air Service Group—Part I. *Nature and function of component units of an Air Service group engineering section. (Sound record accompanies film strip.)*
1–500		Starting and Stopping Procedures for the B–26 Series Airplane. *Procedures for the pilot of the B–26 airplane; pilot's pre-flight inspection, starting engines, engine warm-up, and stopping.*
1–501		Headphones and Loudspeakers. *Theory and operation of the headphone and the electrodynamic loudspeaker.*
1–502		Tube Tester Model 685. *How to use the tube tester Weston Model 685, type 2 of test set 1–56–A to check various types of tubes for short, opens and emission.*
1–503		Preflight Inspection of the Lightning (P–38)—The Radio Mechanic. *Location and inspection of components of the SCR–522 and SCR–274N installation in P–38.*
1–504		Assembling and Adjusting the Radiotelegraph Key. *Assembling and adjusting of the radiotelegraph hand key.*
1–505		Test Set IE–19–A. *Steps in the use of test set IE–19–A in tuning the receiver and transmitter in command set SCR–522A.*
1–506		Structure of Fixed Antennas on Army Aircraft. *Structure, installation materials and antenna ties of common fixed wire as used on Army aircraft.*
1–507		Types of Fixed Antennas on Army Aircraft. *Fixed wire, vertical mast, whip and skin types of antennas used on various Army aircraft.*
1–508		Loop and Trailing Wire Antennas. *Loop antenna and trailing wire antenna as used on Army aircraft.*
1–509		Preflight Inspection of the Airacobra (P–39)—The Radio Mechanic. *Location and preflight inspection of standard radio equipment on the Airacobra P–39.*
1–510		Weather Reports. *Items of a weather report.*
1–511		Radio Transmitter BC–375E—Tuning Procedure. *Procedure for tuning and adjusting the radio transmitter of BC–375E on frequencies between 800 and 12,500 kilocycles.*
1–512		Radio Transmitter BC–375E—Filament Voltage Adjustment. *Procedure for setting the filament voltage adjustments for radio transmitter BC–375E.*
1–513		Radio Transmitter BC–375E—Calibration Reset. *Procedure for adjusting the calibration of radio transmitter BC–375E with frequency meter BC–221C.*
1–514		Radio Transmitter BC–375—Antenna Circuit. *Antenna circuits and the transmitter antenna controls used in tuning the radio transmitter BC–375.*

FS No.	Year released	Subject
1–515		Radio Transmitter BC–375—Trouble Shooting. *How the radio operator can troubleshoot the voltage circuits of radio transmitter BC–375 during flight.*
1–516		Radio Receiver BC–348–O—Functions of Controls. *Changes which take place in the circuits of radio receiver BC–348–O through use of the panel controls.*
1–517		Radio Receiver BC–348–O—Operation. *Adjusting and tuning procedure for radio receiver BC–348–O.*
1–518		Cathode Ray Oscillograph. *Theory and operation of the cathode ray oscillograph and its application in classroom demonstrations.*
1–519		Trouble Shooting in Receivers. *Procedure for trouble-shooting radio receiver, using the Meissner superheterodyne receiver as an example.*
1–520		Dynamotor Unit PE–73C. *Description, operation and maintenance of the dynamotor unit PE–73C as used in radio transmitter BC–375E.*
1–521		Lathes—Grinding and Aligning Centers. *Steps in truing and dressing a grinding wheel; steps in grinding lathe centers; methods of aligning lathe centers.*
1–522		Test Set 1–76–E. *How to tune and adjust the components of test set 1–76–E for use in tuning marker beacon receiver RC–43–A.*
1–523		Radio Set SCR–522A—Tuning the Transmitter. *Procedures for tuning radio transmitter BC–625A of radio set SCR–522A.*
1–524		Radio Set SCR–274N—Preparation for Use. *Preflight adjustments required on SCR–274N.*
1–525		Radio Set SCR–274N—Components and Operation.
1–526		Radio Set SCR–287A and Associated Equipment.
1–527		Link Circuit Relay Type 2–B and Radio Range Keyer Type 75–M.
1–528		Low Frequency Adock Radio Range Equipment and Field Patterns.
1–529		Radio Range Course Control Elements. *Components and construction of the interlocking, squeezing, rotating, and bending elements, and how each controls the radio range course.*
1–530		Radio Transmitter BC–466H RF and AF Sections. *Circuits of radio and audio frequency sections of radio transmitter BC–466H used in a loop system radio range station.*
1–531		Radio Transmitter BC–375—Interpolation and Extrapolation. *How to determine correct dial settings for frequencies not listed on the calibration chart of radio transmitter BC–375.*
1–532		Aeroproducts Propeller—Part V, Assembly and Adjustment of Regulator. *Detailed assembly of regulator for Model A632S–CI.*
1–533		Aeroproducts Propeller—Part VI, Assembly and Adjustment of Hub and Blades. *Detailed assembly and adjustment of hub and blades for Model A632S–CI.*
1–534		Introduction to Gyro Instruments—Principles of the Gyroscope.
1–535		Air Forces Supply System—Sub-Depot Inspection Section. *Duties of a sub-depot inspection section; includes brief explanation of Form 60–B.*

FS No.	Year released	Subject
1–536		Starting, Ground-operating and Stopping R–2600 and R–2800 Engines.
		Procedures before starting, actual starting, ground checking and stopping R–2600 and R–2800 engines on B–25 and B–26 airplanes.
1–537		Inspection and Maintenance of B–26 Hydraulic Systems—Part II, Bomb Bay and Wing Flaps.
		Inspection, maintenance, and trouble-shooting of bomb bay and wing flap hydraulic systems of the B–26 B and C series airplanes.
1–538		Inspection and Maintenance of B–26 Hydraulic Systems—Part III, Cowl Flaps, Landing Gear and Oil Cooler Shutter.
		Inspection, maintenance, and trouble-shooting of cowl flap, landing gear, and oil shutter sections of the hydraulic systems of B–26 B and C series airplanes.
1–539		Aerial Navigation—Automatic Radio Compass.
		Automatic radio compass SCR–269–A, C, G; its components, and its operation.
1–540		Storage of Installed Airplane Engines—Short and Temporary Storage, and Preparation for Service.
		Protections for installed airplane engines during short and temporary periods of idleness, and preparations for restoring them to service.
1–541		Storage of Installed Airplane Engines—Preparation for Extended Storage.
		Procedures to be followed in preparing installed airplane engines for periods of extended storage.
1–542		Storage Installed Airplane Engines—Preparation for Service After Extended Storage.
		Procedures for preparing airplane engines for service following periods of extended storage.
1–543		Wright R–1820–65 & 97 Engine—Induction System.
		Location and operation of the parts of the induction and exhaust system and the fuel flow on the R–1820–65 & 97 airplane engines.
1–544		Wright R–1820–65 & 97 Engine—50–hour Inspection.
		Steps in the completion of the 50–hour inspection on the R–1820–65 & 97 engines, covering only those specific checks which follow the regular preflight, daily and 25-hour inspections.
1–545		Safe Practices in the Hoisting of Material.
		Types of mechanical hoists; types and use of ropes, wire cables, chains, hooks, slings; hoisting procedures, hand signals.
1–546		Tri-metrogon Mapping—Indexing and Filing.
1–547		Blocked Grid Keying.
		Development of the blocked grid keying circuit in radio transmitters.
1–548		Preflight Inspection of the Mustang (P–51)—The Radio Mechanic.
		Location of standard radio equipment on the Mustang (P–51) airplane; procedures for preflight inspection of this equipment.
1–549		Type A–2 Ground Camera.
		Description and operation of Type A–2 copying camera.
1–550		Operation and Maintenance of the C–9 Electric Power Plant—Part I, Disassembly and Trouble Shooting.
		Description of the C–9 electric power plant; field disassembly and trouble shooting of the gasoline engine; field disassembly and trouble shooting of the self-excited electrical generator.

FS No.	Year released	Subject
1–551		Operation and Maintenance of the C–9 Electric Power Plant—Part II, Reassembly and Field Operation. *Reassembly and field operation of the C–9 electric power plant.*
1–552		Disassembly Procedures on R–2800 Engine. *Cautions and procedures in disassembling the major sections and accessories of the R–2800 engine.*
1–553		Aircraft Tachometers. *Principles of operation and maintenance and installation of tachometers in use by the AAF.*
1–554		Principles of Four-Stroke Cycle Engines. *Elementary principles of operation of the four-stroke cycle aircraft engine.*
1–555		Installation of Engine Accessories on R–2600 and R–2800 Engines. *Procedures and cautions for installing and safetying engine accessories on the R–2600 and R–2800 aircraft engines.*
1–556		The B–17 Airplane—Autosyn System. *Operation, inspection and trouble shooting of the autosyn system on the B–17 airplane.*
1–557		The B–17 Airplane—Synchronizing and Timing SF9LU–3 Magneto. *Operations involved in synchronizing and timing the SF9LU–3 magneto to the engine on the B–17 airplane.*
1–558		A–3 35-mm Motion Picture Camera—Disassembly and Reassembly. *Procedures for the disassembly and reassembly of the A–3 Bell & Howell 35-mm motion picture camera.*
1–559		Maintenance of Acrylate Base Plastics—Part I. *Uses, characteristics, storing, cleaning, scribing, and machining of acrylate base plastics.*
1–560		Maintenance of Acrylate Base Plastics—Part II. *Forming, finishing, and cementing of acrylate base plastics.*
1–561		Maintenance of Acrylate Base Plastics—Part III. *Repairs to acrylate base plastics, including temporary emergency wired crack repairs, external temporary bullet hole and crack repairs, permanent crack repairs, and permanent bullet hole repairs.*
1–562		Type D–1 Ground Heater—Part V, Its Use in the Field. *Uncrating, setting-up, winterizing and field operation of the Stewart-Warner D–1 heater.*
1–563		Handling and Release of Pigeons by Air Crews. *Importance of homing pigeons in air-sea rescue of bomber crews; methods of handling and releasing pigeons by air crew members.*
1–564		Emergency Signal Mirrors in Air Rescue. *Tempered steel emergency signal mirror, and its use by airmen when forced down.*
1–565		Type K–17 Twelve-inch Shutter Assembly. *Principles of construction and operation of the mechanism of the Type K–17 12-inch shutter assembly.*
1–566		A–N Gun Camera—Operation. *Operation of the Fairchild and Bell & Howell A–N gun cameras. Includes instructions for setting the lens diaphragm.*
1–567		A–N Gun Camera—Disassembly of Fairchild Model. *Disassembly of the Fairchild A–N gun camera.*
1–568		A–N Gun Camera—Reassembly of Fairchild Model. *Reassembly of the Fairchild A–N gun camera.*

FS No.	Year released	Subject
1–569		A–N Gun Camera—Disassembly of Bell & Howell Model. *Proper procedures for disassembling Bell & Howell model A–N gun camera.*
1–570		A–N Gun Camera—Reassembly of Bell & Howell Model. *Procedures for reassembly of Bell & Howell model A–N gun camera.*
1–571		Curtiss Electric Propeller (Standard Unit)—Disassembly of Brake and Motor of Power Unit. *Detailed procedures for disassembling brake and motor of power unit F–52.*
1–572		Lathes—Center and Follower Rests. *Use of the lathe center rest and follower rest.*
1–573		Gas Welding of Aluminum and Aluminum Alloys—Part I, Materials and Techniques. *Welding materials, welding flame, preliminary procedures, and welding techniques.*
1–574		Gas Welding of Aluminum and Aluminum Alloys—Part II, Repair of Fuel and Oil Tanks. *Repairs to seam, bulge, and bullet holes.*
1–575		Radio Set SCR–522–A—Tuning the Receiver. *Procedure for tuning radio receiver BC–624–A of SCR–522–A.*
1–576		Radio Transmitter BC–375—Selecting the Proper Antenna Circuit. *How to select the proper antenna circuit for radio transmitter BC–375.*
1–577		Radio Receiver BC–348—Trouble Shooting. *How the radio operator can trouble shoot radio receiver BC–348 during flight.*
1–578		Radio Set SCR–274–N—Trouble Shooting the Receivers. *How the radio operator can trouble shoot the receivers of SCR–274–N during flight.*
1–579		Radio Fundamentals Simplified. *Fundamental basis of radio and the properties of conductors, insulators and resistors.*
1–580		Martin Power Operated Turret—Profile Gun Fire Interrupter. *Electrical and mechanical operation, and removal and adjustment of profile interrupter unit.*
1–583		Pylon 8's. *Proper procedures for executing the pylon 8 in flying training.*
1–584		Wright R–1820–65 & 97 Engines—Lubrication System. *Lubrication system of the R–1820–65 & 97 engines, units, path of oil flow and method of lubricating engine parts.*
1–585		Oil Systems on B–26 Series Airplanes. *Location and operation of oil system units and maintenance of oil systems on B–26 series airplanes.*
1–586		Combat Orders for Air Force Units. *Method preparing a typical combat order for Air Forces units; various parts of an order, preparation of the annex, etc.*
1–587		Brazing and Silver Soldering. *Procedures for brazing and silver soldering.*
1–588		Electric Arc Welding Machines. *Various types of direct and alternating current electric arc welding machines.*

FS No.	Year released	Subject
1–589		Bell & Howell 16-mm Projector—Mechanical Disassembly and Repair. *Detailed procedures for disassembling and repairing the mechanical system of the Bell & Howell 16-mm motion picture projector.*
1–590		Bell & Howell 16-mm Projector—Inspection and Repair of the Audio System. *Steps to be followed in inspecting and repairing the audio system of the Bell & Howell 16-mm motion picture projector.*
1–591		Self-sealing Fuel and Oil Cells—Part I, Construction, Identification and Storage. *Cell construction, means of identifying cells and fuel hose, and the handling and storage of cells and hose.*
1–592		Self-sealing Fuel and Oil Cells—Part II, Removal and Installation of P–39 Fuel Cells. *Procedure for removing and installing P–39 fuel cells.*
1–593		Self-sealing Fuel and Oil Cells—Part III, Inspection, Testing and Preparation for Repair. *Inspections for fuel cells, and methods of preparing them for repair.*
1–594		Self-sealing Fuel and Oil Cells—Part IV, Emergency and Universal Repairs. *Procedures for emergency and universal repairs to fuel cells, with specific application to Universal type cells.*
1–595		Self-sealing Fuel and Oil Cells—Part V, Minor, Major and Loose Seam Permanent Repairs. *Procedures for making permanent repairs to minor and major injuries to fuel cells; also illustrates repairs to loose seams.*
1–596		Self-sealing Fuel and Oil Cells—Part VI, Permanent Repairs of Blisters and Corners, and Use of Repair Slug. *Procedures for making permanent repairs to blisters and corners of fuel cells; also shows the use of the repair slug.*
1–598		Introduction to Aerial Cameras. *Various types of aerial cameras used for day and night reconnaissance, mapping and charting, orientation, and bomb spotting.*
1–599		Fuel Systems on B–25 Airplanes. *Location, operation, and maintenance of fuel systems units on B–25 series airplanes.*
1–600		Removal and Installation of the Gyro Instrument. *When and how to remove and replace the following gyro instruments: bank and turn indicator, directional gyro, and flight indicator.*
1–601		Manifold Pressure and Suction Gages—Part I, Inspections and Tests. *Manifold pressure, and gives procedures for making tests for leaks, scale errors, damping, friction error, overpressure and position error.*
1–602		Manifold Pressure and Suction Gages—Part II, Principles of Operation, and Calibration. *Principles of operation of the airtight case aneroid type manifold pressure gage; explains procedures for calibration.*
1–603		Curtiss Electric Propeller (Standard Unit)—Part I, Assembly and Adjustment of Hub Slip Rings and Brush Block. *Detailed procedures for assembly and adjustment of hub slip rings and brush block on the Curtiss electric propeller (standard unit).*

FS No.	Year released	Subject
1-604		Curtiss Electric Propeller (Standard Unit)—Part II, Assembly and Adjustment of Aluminum Alloy Blades. *How to assemble and adjust aluminum alloy blades on the Curtiss electric propeller (standard unit).*
1-605		Curtiss Electric Propeller (Standard Unit)—Part III, Assembly and Adjustment of Hollow Steel Blades and Cuff. *How to assemble and adjust hollow steel blades and cuff of the Curtiss electric propeller (standard unit).*
1-606		Curtiss Electric Propeller (Standard Unit)—Part IV, Assembly and Adjustment of Speed Reducer of Power Unit. *Procedures for assembly and adjustment of the Curtiss electric propeller (standard unit) speed reducer of power unit.*
1-607		Curtiss Electric Propeller (Standard Unit)—Part V, Motor, Brake and Power Gear of Power Unit. *Assembly and adjustment procedures for the motor, brake and power gear of power unit of the Curtiss electric propeller (standard unit).*
1-608		Curtiss Electric Propeller (Standard Unit)—Part VI, Motor and Brake of Power Unit F-52. *Assembly and adjustment procedures for the motor and brake of power unit F-52 of the Curtiss electric propeller (standard unit).*
1-609		Operation of the B-9 Projection Printer. *Methods of using the B-9 projection printer for making projections from cut film and roll film negatives.*
1-610		*Confidential film strip.***
1-611		*Confidential film strip.***
1-612		*Confidential film strip.***
1-613		Teletype: Relation of Basic Fundamentals and Selection of Characters—Part I, Transmitting Unit. *Operation of the Model 15 teletype keyboard transmitter.*
1-614		Teletype: Relation of Basic Fundamentals and Selection of Characters—Part II, Selector Unit. *Operation of the selector unit on the Model 15 teletype page printer.*
1-615		Teletype: Relation of Basic Fundamentals and Selection of Characters—Part III, Printing Operation. *Mechanical forces involved in the printing of characters by the Model 15 teletype page printer.*
1-616		Quick work Method of Photography—Part I, Processing and Printing Sheet Film. *Procedures for the speed processing of cut film: development of negative, contact printing wet negatives, printing wet paper, and drying prints.*
1-617		Quick Work Method of Photography—Part II, Processing Aerial Roll Film. *Speed processing of aerial roll film: preparing tanks and solutions, loading and processing the film, and preparing film for printing.*
1-618		Wright R-1820-65&97 Engines—Construction. *Construction of the major sections of the R-1820-65&97 engines, and location of subassemblies and parts of the sections.*

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FS No.	Year released	Subject
1–619		Wright R–1820–65&97 Engines—Disassembly, Inspection and Assembly of Cylinders and Pistons. *Procedure for removal, inspection and installation of cylinders and pistons; measuring of clearances on the R–1820–65&97 engines.*
1–620		Wright R–1820–65&97 Engines—Valve Timing Check and Valve Clearance Check and Adjustments. *Approved methods for checking valve timing and for checking and adjusting valve clearances on the R–1820–65&97 engines.*
1–621		*Confidential film strip.***
1–622		Fighter Formations in Bad Weather Areas. *Procedures for individual pilots, the flight, the squadron, and the group in instrument weather flying.*
1–623		Ditching the B–24. *Procedures for crew members of the B–24 airplane to follow in ditching.*
1–624		The 20-mm Automatic Cannon. *Nomenclature and operation of the basic AN–M2 20-mm automatic cannon.*
1–625		Target Identification—Part I, Basic Forms, Light, Photographic Interpretation. *Means by which the bombardier may identify his target: basic forms, shapes, shadow, etc.*
1–626		Target Identification—Part II, Reference Points, Patterns and Textures. *Methods by which the bombardier selects and identifies his reference points; ways in which patterns and textures assist in identification.*
1–627		Target Identification—Part III, Concealment Detection. *Ways by which the bombardier can identify camouflaged reference points.*
1–628		The Polaroid Vectograph—Part I, Introduction. *General description of the three-dimensional polaroid vectograph.*
1–629		The Polaroid Vectograph—Part II, Making the Exposure Test. *Identifying right-eye and left-eye negatives; making the exposure tests.*
1–630		The Polaroid Vectograph—Part III, Making the Reliefs. *Processing, registering and hinging and trimming the vectograph reliefs.*
1–631		Fifty-hour Inspection of the B–25 Airplane. *Specific 50-hour checks required in completing the inspection of the B–25 airplane.*
1–632		The C–46 Airplane 50-hour Inspection—Part I. *Necessary 50-hour inspections on the engines, propellers and the principal systems—fuel, oil, ignition, and electrical—of the C–46 airplane.*
1–633		The C–46 Airplane 50-hour Inspection—Part II. *Necessary 50-hour inspections on the hydraulic system, landing gear, wheels and brakes, engine and navigation instruments.*
1–634		The C–46 Airplane 50-hour Inspection—Part III. *Necessary 50-hour inspections on the surfaces, fuselage, night flying equipment, flight control mechanisms and the airplane in general.*
1–635		Operation of Bombing Trainer Type A–2A—Part I, Set-Up Procedure and Pre-Run Check. *Procedures for setting up and making pre-run tests on the Norden Type A–2A bombing trainer assembly.*

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FS No.	Year released	Subject
1–636		Operation of Bombing Trainer Type A–2A—Part II, The Bombing Run. *Operation of the Norden Type A–2A bombing trainer assembly during a bombing run; use of a moving target, and some typical errors in missing the target.*
1–637		Sperry Power Turret (Lower Ball)—Hand Control Unit. *Removal of the hand control unit; breaking the unit into subassemblies, installation, and trouble shooting.*
1–638		Aerial Navigation—Operation and Alignment of the B–5 Driftmeter. *B–5 driftmeter; determining drift correction by using drift lines and by using the pantograph; aligning the driftmeter; additional tests and precautions.*
1–639		Preflight Inspection of the—B–26 Airplane—The Crew Chief. *Inspections before starting engines, and during and after engine warm up.*
1–640		Use of Stencils, Masking Paper and Decalcomanias in Applying Airplane Markings and Insignia—Part I. *Common uses of stencils, masking paper and decalcomanias in applying airplane markings and insignia, and the methods of making and using stencils.*
1–641		Use of Stencils, Masking Paper and Decalcomanias in Applying Air plane Markings and Insignia—Part II. *Methods of using masking paper, star layout device and decalcomanias in applying airplane markings and insignia.*
1–642		Use of Gasket Paste, Thread Lubricant and Thread. *Use of gasket paste, thread lubricant and thread on parting surfaces of airplane engines and instruments.*
1–643		Diaphragm Actuating Control A–1, A–2, and A–3. *Installation of A–1, A–2, and A–3 diaphragm actuating controls on K–17 cameras.*
1–644		A–1 Camera Control System. *Construction and operation of the type A–1 camera control system.*
1–645		*Confidential film strip. Color.***
1–646		Aerodynamic Maintenance of Aircraft. *Importance of proper aerodynamic maintenance of aircraft, and recommended procedures for keeping military aircraft aerodynamically clean.*
1–647		Use and Care of Handtools—Part I, Vises, Screw Drivers, Hammers and Pliers. *Proper selection and use of vises, screwdrivers, hammers and pliers.*
1–648		Use and Care of Handtools—Part II, Wrenches. *How to select and use the proper wrench for any job requiring a wrench.*
1–649		Use and Care of Handtools—Part III, Cold Chisels, Punches, Files, Hacksaws, Drills and Hand Drilling Tools. *Proper selection and use of cold chisels, punches, files, hacksaws, drills and hand drilling tools.*
1–650		Hamilton Hydromatic Propeller Governor—Disassembly of Model 4L11–G1J. *Procedures used in disassembling Hamilton hydromatic propeller governor model 4L–11–G1J.*

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FS No.	Year released	Subject
1-651		Hamilton Hydromatic Propeller Governor—Disassembly of Double-capacity Model 4G8-G15D. *Detailed procedures for disassembling the Hamilton hydromatic propeller governor model 4G8-G15D.*
1-652		Aeroproducts Propeller—Disassembly of Regulator Model A632S-C4 subassemblies. *Disassembly procedures for Aeroproducts propeller regulator Model A632S-C4 subassemblies.*
*1-653		Aeroproducts Propeller—Assembly and Adjustment of Regulator Model A632S-C4 subassemblies. *Procedures for assembling and adjusting Aeroproducts propeller regulator Model A632S-C4 subassemblies.*
1-654		Camera Installation in the F-5A Airplane. *Installation of the K-17 cameras in the three basic positions within the F-5A airplane; describes camera inspection.*
1-655		AN/TTQ-1 Equipment. *Components of the AN/TTQ-1 radar equipment.*
1-656		Aerial Navigation—Compensation of the SCR-269 A, C & G. *Method of compensating the automatic radio compass SCR-269 A, C & G for deviation error.*
1-658		The K-17 Aircraft Camera—Part I, The 6-inch Lens Cone. *How to time the shutter and attach the 6-inch lens cone to the K-17 aircraft camera.*
1-659		The K-17 Aircraft Camera—Part II, The 12-inch Lens Cone. *How to time the shutter and attach the 12-inch lens cone on the K-17 aircraft camera.*
1-660		The K-17 Aircraft Camera—Part III, The 24 inch Lens Cone. *How to time the shutter and attach the 24-inch lens cone on the K-17 aircraft camera.*
1-661		*Confidential film strip.***
1-662		*Confidential film strip.***
1-663		*Confidential film strip.***
1-664		*Confidential film strip.***
1-665		*Confidential film strip.***
1-666		Aircraft Warning and Radio Communications Equipment. *Nontechnical description of several radio sets used in aircraft warning installations. Included are SCR-188A, SCR-299 and SCR-300.*
1-667		Ground Track Maneuvers. *Six ground track maneuvers: s-turns, 8's along a road, crossroad 8's, and parallel, diagonal and advanced rectangular courses.*
1-668		The 90° Hurdle Stage. *Procedures for making 90° hurdle landings.*
1-669		Trouble Shooting Headsets and Microphones. *How to trouble shoot and repair headsets and microphones.*

*Authorized for ASF training and for permanent retention by film libraries.
**Request title from film library.

FS No.	Year released	Subject
1-670		Preflight Inspection of the Liberator (B-24H)—The Radio Mechanic, Part 1. *Location of radio equipment, inspection of the antennas, and check of radio equipment in the pilot's compartment.*
1-671		Preflight Inspection of the Liberator (B-24H)—The Radio Mechanic, Part II. *Inspection of radio equipment at positions other than pilot's compartment; describes procedures for concluding preflight inspections.*
1-672		Printing Code Messages. *Why an approved method of hand printing is used by the AAF in copying radio code messages.*
1-673		Soldering of Radio Equipment. *Technique of soldering radio equipment and describes the care of the electric soldering iron.*
1-674		Frequency Meter Set SCR-211-C. *Components and use of frequency meter SCR-211-C.*
1-675		Loop Radio Range—Range Section and Antennas. *Loop antennas and the operation of the range section of radio transmitter BC-446-H.*
1-676		Loop Radio Range—Course Alignment. *Procedures for aligning and checking the course of a loop radio range station using radio transmitter BC-446-H.*
1-677		Radio Transmitter BC-375—The Keying Relay. *Keying relay and its function to radio transmitter BC-375 and radio receiver BC-348.*
1-678		Radio Set SCR-274-N—Trouble Shooting the Transmitters. *How to trouble shoot the transmitters of radio set SCR-274-N during flight.*
1-679		Radio Set SCR-578-A—Components.
1-680		Radio Set SCR-522-A—Low Voltage Trouble Shooting.
1-681		Radio Set SCR-522-A—High Voltage Trouble Shooting.
1-682		Radio Receiver BC-779-A—General Description. *Uses, frequency range, and sections of radio receiver BC-779-A (Super-Pro 210 LX).*
1-683		Radio Transmitter BC-446-H—Installation Checks Before Tuning. *Installation adjustments and checks to be made before tuning radio transmitter BC-446-H.*
1-684		Radio Transmitter BC-446-H—Tuning. *Explains the procedures for tuning radio transmitter BC-446-H.*
1-685		Radio Transmitter BC-446-H—Maintenance. *Maintenance and various inspections required to keep radio transmitter BC-446-H in proper operating condition.*
1-686		Radio Transmitter BC-446-H—Trouble Shooting. *Systematic approach to trouble shooting the most common failures of radio transmitter BC-446-H.*
1-687		Tri-metrogon Mapping—Matching Tri-metrogon Film. *Procedures used in matching tri-metrogon film.*
1-688		Maps of Mediterranean Sea Area. *Index map and 61 detailed section maps of the Mediterranean Sea area.*
1-689		Maps of Southwest Pacific Area. *Index map and 42 detailed section maps of the Southwest Pacific area.*

FS No.	Year released	Subject
1–690		Maps of Northwest Pacific Area. *Index map and 39 detailed section maps of the Northwest Pacific area.*
1–691		Maps of India, China and Japan. *Index map and 50 detailed section maps of India, China and Japan.*
1–692		Maps of Europe, Scandinavia and Russia. *Index map and 66 detailed section maps of Europe, Scandinavia, and Russia.*
1–693		Use of Tags on Air Forces Property. *Five types of tags used to show conditions and identity of property; describes detailed procedure for filling out tags: illustrates classes of property.*
1–694		Steel Runways. *Methods of surfacing airdrome runways with prefabricated steel. Discusses the following types: pierced plank, bar-and-rod, and Irving grid.*
1–695		Surface Combustion Cabin and Cockpit Heating System—Part I, Principles of Operation. *Principles of operation and operating procedures for surface combustion cabin and cockpit heating system used on the C–54 airplane.*
1–696		Surface Combustion Cabin and Cockpit Heating System—Part II, Overhaul of the Cabin Heating System. *Overhaul procedures for the Model AAS–100R–H3 cabin heaters on the C–54 airplane.*
1–697		Surface Combustion Cabin and Cockpit Heating System—Part III, Overhaul of the Cockpit Heating System. *Overhaul procedures for the Model ACU–15D–H2 cockpit heater on the C–54 airplane.*
1–698		The Polaroid Vectograph—Part IV, Making the Vectograph Print. *Printing, fixing, and checking density of the Vectograph print.*
1–699		The Polaroid Vectograph—Part V, Finishing the Vectograph Print. *Final steps in finishing the Vectograph print; additional facts to remember on developing and printing.*
1–700		Aircraft Machine Guns—Proper Head Spacing. *Significance of proper head spacing on aircraft machine guns; describes procedures to follow in determining correct head space on .50 caliber guns.*
1–701		Preflight Inspection of the M-series Bombsight. *Procedures for making preflight inspection of the M-Series (Norden) bombsight under field conditions.*
1–702		Maintenance of the M-series Bombsight Under Field Conditions—Part I. *Field maintenance of the sight head of the M-Series (Norden) bombsight.*
1–703		Maintenance of the M-series Bombsight Under Field Conditions—Part II. *Field maintenance of the stabilizers of the M-series (Norden) bombsight.*
1–706		The 180° Side Stage. *The 180° side approach in landings for the flying student.*
1–707		Teletype: Relation of Basic Fundamentals and Selection of Characters—Ribbon Operation. *Mechanical forces involved in feeding, reversing, oscillating, shifting, and locking out the ribbon of Model 15 teletype page printer.*

FS No.	Year released	Subject
1–708		Teletype: Relation of Basic Fundamentals and Selection of Characters —Spacing Operation. *Mechanical forces involved in the spacing of the type bar carriage of Model 15 teletype page printer.*
1–709		Link Trainer Maintenance—Instrument Mechanical Control Systems. *Throttle mechanical system, and pitch action mechanical system.*
1–710		Link Trainer Maintenance—Attitude and Directional Control Systems. *Following systems: rudder pedal, control stick, and automatic-turn-with-bank.*
1–711		Lathes—Chucks and Face Plates. *Universal combination, drill, and magnetic chucks.*
1–712		Lathes—Radial Turning. *The set up for radial turning on work held in a four-jaw check.*
1–713		Sheet Metal Work: Parallel Line Development—Part I. *Principles of development and development of patterns for two-piece 90° elbow.*
1–714		Sheet Metal Work: Parallel Line Development—Part II. *Development of patterns for a regular tee-joint consisting of cylinders of unequal diameter intersecting at 90°.*
1–715		Sheet Metal Work: Radial Line Development—Part I. *Development of right cone and frustum of right cone.*
1–716		Sheet Metal Work: Radial Line Development—Part II. *Development of square pyramid and irregular frustum of cone.*
1–717		Repair of Steel Tube Structures by Welding—Part I. *Cleaning, reshaping, repairing, reinforcing, and constructing tubular assemblies.*
1–718		Repair of Steel Tube Structures by Welding—Part II. *Various types of welded splices for steel tube structures.*
1–719		Bank and Turn Indicator—Part I, Principles of Operation.
1–720		Bank and Turn Indicator—Part II, Adjustments and Maintenance. *Sensitivity spring, damping mechanism, regulating suction, lubricating rotor bearings, and cleaning air inlet assembly.*
1–721		Teletypewriter—Orientation of Equipment. *Theory of orientation and the use of the range finder of Model 15 teletype page printer.*
1–722		The K–17 Aircraft Camera—Part IV, Installation. *Installation of the K–17 camera in the A–8 camera mount.*
1–723		The K–17 Aircraft Camera—Part V, Operation. *Procedures for operating the K–17 camera; manual, semi-automatic and automatic operation.*
1–724		The Polaroid Vectograph—Part VI, Vectograph Reconnaissance Strips. *Procedures for making test exposures, exposing and developing reliefs, controlled registering of reliefs, assembly of prints, and cutting the assembly.*

FS No.	Year released	Subject
1–725		Pilot's Introduction to the C–87 Airplane—Part I, The Airplane in General. *Structural features, dimensions, characteristics, and use of the C–87 transport airplane.*
1–726		Pilot's Introduction to the C–87 Airplane—Part II, The Airplane in General. *Introduction to engines, fuel systems, oil system, hydraulic system, electrical system, and flight instruments of the C–87.*
1–727		Pilot's Introduction to the C–87 Airplane—Part III, Electrical System. *Operation and function of individual units of the electrical system of the C–87.*
1–728		Pilot's Introduction to the C–87 Airplane—Part IV, Fuel System. *Location and operation of fuel tanks, selector valves, booster pumps, transfer system, flow meter, sight gauges and fuel pressure gauges, and traces the fuel flow in the C–87.*
1–729		Pilot's Introduction to the C–87 Airplane—Part V, Oil System. *Location of oil tanks, pressures and temperatures for various operating conditions, and procedures for oil dilution system on the C–87.*
1–730		Pilot's Introduction to the C–87 Airplane—Par VI, Hydraulic System. *Operation of hydraulic system on landing gear, brakes, flaps, and automatic pilot of the C–87.*
1–731		Pilot's Introduction to the C–87 Airplane—Part VII, The A–3A Automatic Pilot. *Location, method of setting and operation of the A–3A automatic pilot on the C–87 airplane.*
1–732		Pilot's Introduction to the C–87 Airplane—Part VIII, Vacuum, De-Icer and Anti-Icer Systems. *Location and operation and function of controls, valves and motors of the vacuum, de-icer and anti-icer systems of the C–87 airplane.*
1–733		Pilot's Introduction to the C–87 Airplane—Part IX, Heating, Ventilating, Oxygen and Fire Extinguishing Systems. *Location and operation of the heating, ventilating, oxygen and fire extinguishing systems on the C–87.*
1–734		Pilot's Introduction to the C–87 Airplane—Part X, Emergency Operation of the Hydraulic System. *Location and operation of the auxiliary electric pump; three systems of emergency operation for the landing gear, and two systems of emergency operation for the flap.*
1–735		Pilot's Introduction to the C–87 Airplane—Part XI, Flight Engine Operation. *Pilot's check list procedure and the normal operation of the C–87 airplane in starting, taxiing and running up engines before take-off.*
1–736		Pilot's Introduction to the C–87 Airplane—Part XII, Flight Engine Operation, Cont'd. *Pilot's check list procedure and normal operation of the C–87 airplane after take-off and during cruising, landing, and securing.*
1–737		Pilot's Introduction to the C–87 Airplane—Part XIII, Emergency Flight Operation. *Emergency operation of a maximum grossload C–87 airplane on two or three engines using No. 1 engine out, for example.*

FS No.	Year released	Subject
1–738		Compass Errors and Corrections. *Causes and corrections for such fundamental magnetic compass errors as variation, deviation, northerly turning error and acceleration error.*
1–739		Your Body in Flight. *Sense of balance. Discusses causes and prevention of aerotitus, aerosinusitus, anoxia, and aeroembolism.*
1–740		AN–M103 Nose Bomb Fuze. *Construction and method of arming the AN–M103 nose bomb fuze.*
1–741		Link Trainer Maintenance—Attitude and Directional Vacuum Control System. *The turbine unit, vacuum leads, and operating mechanisms.*
1–742		Link Trainer Maintenance—The Altitude, Airspeed and Tachometer Vacuum Systems. *Operating principles of the altitude, airspeed and tachometer vacuum systems.*
1–743		Link Trainer Maintenance—The Gyro Instrument and Automatic Spin Vacuum Systems. *Operating principles of the gyro instrument and automatic spin vacuum systems.*
1–744		Aircraft Rivets and Riveting Methods—Part I. *Various types of solid shank and blind rivets; describes procedure for rivet lay-outs.*
1–745		Aircraft Rivets and Riveting Methods—Part II. *Drilling of rivet holes, hand riveting, and removal of rivets.*
1–746		Aircraft Rivets and Riveting Methods—Part III. *Countersinking for flush type riveting and riveting with the pneumatic gun.*
1–747		Lathes—Centers and Mandrels. *Installation and removal of centers; types and uses of centers and mandrels.*
1–748		Organization of the AAF—Part I. *Organization and function of the Headquarters section of the AAF.*
1–749		Organization of the AAF—Part II. *Organization and function of the various Commands of the AAF.*
1–750		Organization of the AAF—Part III. *Organization and function of the oversea Air Forces of the AAF.*
1–751		Welding of Ferrous, Aluminum Alloy, and Magnesium Alloy Castings. *Methods of identifying castings, and general procedures for welding ferrous, aluminum alloy, and magnesium alloy castings.*
1–752		Equipment Used in the Generation and Distribution of Gas for Welding and Cutting. *Oxygen and acetylene cylinders, acetylene generators, manifolding systems, and safety precautions.*
1–753		Manifold Pressure and Suction Gages—Part IV, Suction Gages. *Principles of operation and methods of calibration of diaphragm type and bellows type suction gages.*
1–754		Types of Bias in Radio. *Theory, function and application of fixed, cathode, grid leak and combination bias in radio circuits.*
1–755		Grinding Wheels and Flanges. *Preparation of grinding wheels for mounting, mounting the wheel, truing and dressing, and balancing the wheel.*

FS No.	Year released	Subject
1–756		Aircraft Machine Guns—Proper Timing. *Definition of timing, when and how to check timing, significance of timing.*
1–757		The Polaroid Vectograph—Part VII, Making Vectograph Obliques. *Requirements of the stereo negatives; procedures for processing, printing and mounting.*
1–758		The Polaroid Vectograph—Part VIII, Making Ground Vectograph Prints. *Cameras used; interocular distance; exposing and registering prints.*
1–759		The Polaroid Vectograph—Part IX, Making Lantern Slides. *Types of vectographs used for lantern slides; displacement; and procedure for mounting in slide form.*
1–760		The B–17 Ariplane—Special Inspections on the Engine. *Operations included in making special inspections on the B–17 airplane engines.*
1–761		Wright R–1820–65 & 97 Engine—Ignition Timing and Wiring. *Approved methods and procedures for performing the 50-hour inspection on the engine ignition systems.*
1–763		Sperry Automatic Computing Sight K–9—Part I, Introduction. *Function of the K–9 sight; construction and principles of operation of the sighting head and the follow-up and computing mechanism.*
1–764		Sperry Automatic Computing Sight K–9—Part II, Installation and Harmonization. *Installing in the Martin power turret; method of harmonization.*
1–765		Sperry Automatic Computing Sight K–9—Part III, Operation. *Hints for achieving better gunnery with this sight.*
1–766		Use of the AB Computer Under Field Conditions. *Nomenclature of the AB Computer; procedure in setting up data; technique of use, and the tangent scales.*
1–767		Gentle, Medium and Steep Turns. *For flying students.*
1–768		Oiling System of the A–20 Airplane. *Principles of operation.*
1–769		Magnetic Particle Inspection of Aircraft Propeller Parts—Part I, Principles. *Magnetic field patterns; principles of demagnetizing.*
1–770		Magnetic Particle Inspection of Aircraft Propeller Parts—Part II, Procedure. *Operational procedure; factors which affect formation of indications; transferring the indications; demagnetizing the part and preparing it for service.*
1–771		Magnetic Particle Inspection of Aircraft Propeller Parts—Part III, Interpreting Indications of Defects. *Inherent defects, processing defects, fatigue defects, and nonrelevant defects.*
1–772		Hamilton Standard Counterweight Propeller Governor—Assembly, Adjustment, and Test of Model 1M12–G.
1–773		Hamilton Standard Counterweight Propeller Governor—Assembly, Adjustment, and Test of Model 4L11–G1J.
1–774		Hamilton Standard Counterweight Propeller Governor—Assembly, Adjustment, and Test of Model 4G8–G15D.
1–775		Curtiss Electric Propeller Governor—Disassembly. *Proportional model 100008–3E.*

FS No.	Year released	Subject
1–776		Curtiss Electric Propeller Governor—Assembly, Adjustment, and Testing. *Proportional model 100008–3E.*
1–777		Manifold Pressure and Suction Gages—Part III, Double Bellows Manifold Pressure Gages. *Types D–9 and D–10 (6743–108).*
1–778		Compass Compensation. *Procedure for compensating an aircraft compass by means of the coefficient method.*
1–779		Aerial Cameras—Type K–22. *Purpose; its components, method of installation and operation.*
1–780		Sperry Automatic Computing Sight, Type K–9—Part IV, Adjustments. *Procedures for making necessary adjustments on computing mechanism and sighting head.*
1–781		Sperry Automatic Computing Sight, Type K–9—Part V, Disassembly, Inspection and Maintenance.
1–782		Sperry Automatic Computing Sight, Type K–9—Part VI, 50-hour Inspection.
1–783		Mark II Glide Bombing Attachment—Description, Basic Principles, Installation.
1–784		Mark II Glide Bombing Attachment—Preflight, Operation, Limitations.
1–785		Spins. *Precision spins in primary flying training, power-on spins, variations in spin characteristics, and dangers of spins.*
1–786		Air Defense Grid System. *Purpose of the air defense grid system; how to devise such a system.*
1–787		The Personal Equipment Officer. *Function of the Personel Equipment Officer and his duties.*
1–788		Intervalometer Type B–3B—Part I, Disassembly. *Procedures for disassembling the Type B–3B intervalometer used with aerial cameras.*
1–789		Intervalometer Type B–3B—Part II, Reassembly. *Procedures for reassembling the Type B–3B intervalometer.*
1–790		Intervalometer Type B–3B—Part III, Operation and Adjustment. *Principles of operation, operating instructions, adjusting motor speed, and procedure for lubricating the Type B–3B intervalometer.*
1–791		The Directional Gyro Indicator—Part I, Principles of Operation. *Principles of operation for the directional gyro indicator (magnitude of turn indicator).*
1–792		The Directional Gyro Indicator—Part II, Mechanical Features. *Gyro assembly and air nozzle, caging mechanism, and air inlet system.*
1–793		Link Trainer Maintenance—Daily and Preflight Inspection.
1–794		Link Trainer Maintenance—25-hour and 50-hour Inspection.
1–795		Link Trainer Maintenance—100-hour Inspection.
1–796		Teletypewriters—Routine Maintenance and Overhaul. *Daily, 10-day, and monthly inspections and the semiannual overhaul.*
1–797		Teletypewriters—Synchronization of Equipment. *Principles involved in synchronizing the mechanical movements of the receiving unit of the Model 15 teletype page printer and the electric impulses from the signal line.*

FS No.	Year released	Subject
1–798		Teletypewriters—Printing Overlap. *Mechanical forces involved in printing overlap in the operation of the Model 15 teletype page printer.*
1–799		Lathes—Center Drilling. *Preparatory procedures for drilling center holes, center drilling in a lathe, and polishing drilled center holes.*
1–800		Ditching the B–17. *Duties of each member of the crew.*
1–801		Pilot's Introduction to the C–46 Airplane—Part I, The Airplane in General. *Structural features, dimensions, characteristics and usage of the C–46 airplane.*
1–802		Pilot's Introduction to the C–46 Airplane—Part II, The Electrical System. *Electrical system, operation and function of individual electrical units.*
1–803		Pilot's Introduction to the C–46 Airplane—Part III, Flight Controls. *Description and operation of flight controls on the C–46 airplane.*
1–804		Pilot's Introduction to the C–46 Airplane—Part IV, Hydraulic System. *Location and operation.*
1–805		Pilot's Introduction to the C–46 Airplane—Part V, The Fuel System. *Location and operation.*
1–806		Pilot's Introduction to the C–46 Airplane—Part VI, The Oil System. *Location, operation, and proper function.*
1–807		Pilot's Introduction to the C–46 Airplane—Part VII, The Oxygen and Fire Extinguishing Systems. *Location, operation, and warning methods.*
1–808		Pilot's Introduction to the C–46 Airplane—Part VIII, Flight Engine Operation, Section I. *Check list procedures and the normal operation before starting and during starting.*
1–809		Pilot's Introduction to the C–46 Airplane—Part VIII, Flight Engine Operation, Section II. *Check list procedures and normal operation before taxiing, during engine run-up, before take-off, and during climb after take-off.*
1–810		Pilot's Introduction to the C–46 Airplane—Part VIII, Flight Engine Operation, Section III. *Check list procedures and normal operation in cruising, before landing, after landing and securing.*
1–811		Pilot's Introduction to the C–46 Airplane—Part IX, Vacuum, De-Icer and Anti-Icer Systems. *Location, operation and function of controls, valves and motors of the vacuum, de-icer and anti-icer systems on the C–46 airplane.*
1–812		Pilot's Introduction to the C–46 Airplane—Part X, Use of Load Adjuster and Loading Chart.
1–813		Aerial Navigation—Search. *Aerial search patterns (Replaces FS 1–89).*
1–814		Aerial Navigation—Alignment of B–3 and B–2 Driftmeters.
1–815		Aerial Navigation—Airswinging the Compass by Astrocompass. *Procedures to be followed in airswinging the magnetic compass by means of the astrocompass.*

FS No.	Year released	Subject
1–816		Stalls. *Designed for flying students, to show factors causing stalls, means of recognizing stalls, and standard recoveries from stalls.*
1–817		Aircraft Electrical Central Power System. *Components and operation.*
1–818		Transition Phase (Basic Training)—Part VII. *Designed to show the flying student the importance of judgment and technique in accuracy landings.*
1–820		The K–1A Film Developer—Part 1. *Operation and maintenance of the developer used for Type III motion picture film.*
1–821		The K–1A Film Developer—Part 2. *Splicing and loading Type III motion picture film; threading and adjusting the machine.*
1–822		*Confidential film strip.***
1–823		Convalescent Training Program—Part 1, Military and Educational Training. *Military and educational activities included in a typical AAF convalescent training program; three units, Red, Yellow, and Green.*
1–824		Convalescent Training Program—Part 2, Physical Conditioning. *Activities carried on in the Red unit of a typical AAF convalescent training program.*
1–825		B–17 Emergency Landing—Removal of Ball Turret Prior to Wheels-up Landing. *Procedure for removing and jettisoning the ball turret of the B–17 airplane prior to making a wheels-up emergency landing.*
1–826		The Flight Indicator—Part I, Principles of Operation. *Principles of operation of the flight indicator (gyro horizon indicator); the erection mechanism; turn errors.*
1–827		The Flight Indicator—Part II, Mechanical Features. *Mechanical features of the gyro assembly, the caging mechanism, and the air inlet system.*
1–828		24-volt Generator System Equipment—Part I, Generators. *Operating principles of generators used in 24-volt central power systems.*
1–829		24-volt Generator System Equipment—Part II, Carbon Pile Voltage Regulators. *Principles of operation and procedure for adjusting.*
1–830		24-volt Generator System Equipment—Part III, Generator Control Switch Relays. *Principles of operation and procedure for adjusting.*
1–831		Forming of Aircraft Sheet Metal—Lay-out of Straight Line 90° Bends. *Straight line bending: minimum radii, set-back, bend allowances, sight lines, and procedure for flat pattern lay-out.*
1–832		Forming of Aircraft Sheet Metal—Straight Line Bends. *Procedure for making simple bends and intersecting bends.*
1–833		Lathes—Radial Turning, Part II. *Procedure for radial turning (facing) with work held in a four-jaw check, and with work supported between centers.*
1–834		Forming of Aircraft Sheet Metal—Bumping on a Form Block. *Procedure for making a form block, and forming (bumping) metal on the form block.*

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FS No.	Year released	Subject
1–835		Preflight Inspection of the Mitchell (B–25)—The Radio Mechanic, Part I.
		Location of radio equipment, inspection of the antennas, and check of radio equipment in the pilot's compartment and the cannoneer's compartment.
1–836		Preflight Inspection of the Mitchell (B–25)—The Radio Mechanic, Part II.
		Inspection of radio equipment at the radio operator waist gunner's compartment and rear turret gunner's compartment; differences between B–25H and B–25J radio equipment installations.
1–837		*Confidential film strip.***
1–838		Sperry Equipment (Miscellaneous)—Part 1.
		Tools and procedures for removing and installing No. 4/0 to 7/0 taper pins in Sperry equipment.
1–839		Sperry Equipment (Miscellaneous)—Part 2.
		Tools and procedures for drilling and reaming of gears and shafts for installation of No. 4/0 to 7/0 taper pins in Sperry equipment.
1–840		The B–17 Airplane—Installation of Type A–16 Chin Turret.
1–841		Emerson Nose Turret—Part I, Introduction.
		Turret as installed on the B–24 airplane, its principles of operation and its supplementary units.
1–842		Emerson Nose Turret—Part 2, Major Adjustments.
		Adjustment of elevator gear train, hand charger levers, glass shield drive chains, and load compounding.
1–843		Type C–1 Portable Instrument Field Test Set Auxiliary and Accessory Equipment—Part I, General.
		Auxiliary and accessory test equipment units of the Type C–1 portable instrument field test set.
1–844		Type C–1 Portable Instrument Field Test Set—Part I, General.
		Introduction and description of its fixed units.
1–845		Forming of Aircraft Sheet Metal—Bumping on a Sandbag.
		Procedures for making a sandbag, laying out and bumping a sphere section, and laying out and bumping a fairing.
1–846		Forming of Aircraft Sheet Metal—Forming Curved Flanges on Flat Sheet Metal.
		Curved flanges and nose ribs.
1–847		Forming of Aircraft Sheet Metal—Forming Curved Flanges on Curved Sheet Metal.
		Bent flanges by shrinking the metal and by stretching the metal.
1–848		The Polaroid Vectograph—Part X, Projection Printing.
		Procedures to be followed in making Vectographs by projection printing: exposing a single wash-off relief, making the test exposures, and squeegeeing after fixing.
1–849		Radio Set SCR–578A—Operation.
		Procedures for operating the "Gibson Girl" liferaft radio set SCR–578A: unpacking, setting up, and operating.
1–850		Lathes—Chucks and Face Plates, Part I.
		Provisions for attachment of chucks to lathe spindle, and installation and removal of 4-jaw chucks.
1–851		Aircraft Rivets and Riveting Methods—Part IV.
		Identification, use, and installation of three commonly used "blind" rivets: cherry rivets, rivnuts, and explosive rivets.

**Request title from film library.

FS No.	Year released	Subject
1–852		The Polaroid Vectograph—Part XI, Mosaic Reproduction (Tape Method), Part A. *Procedures for numbering and cutting, using the tape method for mosaic reproduction.*
1–853		The Polaroid Vectograph—Part XII, Mosaic Reproduction (Tape Method), Part B. *Procedures for assembly and reverse assembly, using the tape method for mosaic reproduction.*
1–854		The Polaroid Vectograph—Part XIII, Mosaic Reproduction (Wet Print Method), Part A. *Procedures for numbering and cutting the prints, using the wet print method for mosaic reproduction.*
1–855		The Polaroid Vectograph—Part XIV, Mosaic Reproduction (Wet Print Method), Part B. *Procedures for assembly and reverse assembly, using the wet print method for mosaic reproduction.*
1–856		Processing Ansco Color Film. *Equipment and procedures used in processing Ansco color film.*
1–857		Radiators and Oil Temperature Regulators—Part I. *Construction, cleaning, testing, repair, and preparing and storing ethylene glycol radiators.*
1–858		Radiators and Oil Temperature Regulators—Part II. *Construction, cleaning, testing, and repair of core and external jacket of the oil temperature regulator.*
1–859		Disassembly of Hamilton Standard Counterweight Propeller Governor Model 1M12G. *Procedures and precautions.*
1–860		Transition Phase (Basic Training)—Part IX. *Formation flying for basic flying training students.*
1–861		Miniature Autosyn Instruments—Part I, Introduction. *Fundamentals of electrical principles involved in operation, and system of electrical connections used.*
1–862		Miniature Autosyn Instruments—Part II, Principles of Operation and Calibration.
1–863		Miniature Autosyn Instruments—Part III, Mechanical Features and Calibration of Transmitters. *Features and method of calibrating manifold pressure transmitter, fuel pressure transmitter, oil pressure transmitter, temperature transmitter, and tachometer transmitter.*
1–864		*Confidential film strip.***
1–865		*Confidential film strip.***
1–866		Gyro Stabilized Flux-gate Compass. *Description, operation, swinging, and compensation of the gyro stabilized flux-gate compass. (Revision of FS 1–705.)*
1–867		Aerial Navigation—Fuel Consumption Graph. *Procedures for preparing and using a fuel consumption graph.*
1–868		Aerial Navigation—Operation of the Astro-compass. *Description, operation and preflight alignment check. (Revision of FS 1–421.)*

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FS No.	Year released	Subject
1-869		Oxygen System in the B-24. *Description, operation, use and preflight checks.*
1-870		*Confidential film strip.***
1-871		Photographic Papers—Water Resistant Type IX. *Characteristics and processing of Type IX water resistant photographic papers.*
1-872		Parking of Aircraft. *Illustrates visual signals and precautions.* *Based on AAF Reg. 62-10.*
1-873		B-29 Airplane—Introduction to Remote Control Turret System. *Location and function of the various sighting and gun stations.*
1-874		B-29 Airplane—Introduction to Cabin Pressurizing. *Function and procedures for preparing for cabin pressure test.*
1-875		B-29 Airplane—Cabin Pressure Test. *Equipment and procedures.*
1-876		B-29 Airplane—Cause and Correction of Cabin Pressure Leaks. *Potential causes and methods of correcting them.*
1-877		Heated Wing, Empennage and Windshield Anti-icing Systems. *Principles of operation and the controls of the airplane heated wing, empennage, and windshield anti-icing systems, with specific reference to the B-24 airplane.*
1-878		Camouflage and General Defense of a Light AW Installation. *Simple rules to follow in camouflaging a light-weight early warning radar installation, including rules for defense.*
1-879		Malaria Discipline. *Importance of malaria; its causes and effects; collective and individual protective measures against malaria. Based on Air Poster Series 1-5030. (Lecture notes available).*
1-880		*Confidential film strip.***
1-881		Photographic Darkroom Kit—Assembly of Airborne Type U-1. *Erecting airborne photographic darkroom kit Type U-1, including assembly and making necessary connections.*
1-882		Flash Bomb M-46. *Arming the M-46 flash bomb, its principles of operation, and its use in night photography.*
1-883		Interphone RC-36—Trouble Shooting. *Trouble shooting during flight.*
1-884		Auxiliary Power Plant HRU-28—Part I, Description. *Uses and components of power plant used to supply 24-volt power inside airplanes.*
1-885		Auxiliary Power Plant HRU-28—Part 2, Operation. *Fueling, starting, and stopping.*
1-886		Assembly of Airborne Photographic Laboratory. *Procedures for siting and assembling the airborne photographic laboratory; describes its component kits.*
1-887		SCR-188—Setting Up and Remoting to AN/TTQ-1. *Gives several alternate methods of remoting radio sets to information center.*
1-888		Safety Practices for the Motor Vehicle Driver. *Series of questions and situations for the nonmilitary motor vehicle driver, with appropriate answers.*

**Request title from film library.

FS No.	Year released	Subject
1–889		Torque. *Designed to teach the flying student to recognize "torque effect" and its methods of correction.*
1–890		Transition Phase (Basic)—Part I. *Familiarization with the basic trainer airplane: cockpit check, taxiing, climbing turns, leveling off procedure. (Revision of FS 1–443.)*
1–891		Transition Phase (Basic)—Part II. *Familiarization with the basic trainer airplane: medium, gliding and steep turns, landings, coordination exercises. (Revision of FS 1–478.)*
1–892		Tips on Night Flying (Basic). *Night flying tips for basic flying students: starting and cockpit check, taxiing and take-off, zones, and landings. (Revision of FS 1–582.)*
1–893		Roll Film Dryer Type A–10.
1–894		50-hour Inspection of the A–26 Airplane—Part I, General. *Procedures; the series also includes procedures peculiar to the 25-hour inspection.*
1–895		50-hour Inspection of the A–26 Airplane—Part II, Engines and Propellers.
1–896		50-hour Inspection of the A–26 Airplane—Part III, Fuel and Oil Systems.
1–897		50-hour Inspection of the A–26 Airplane—Part IV, Electrical System.
1–898		50-hour Inspection of the A–26 Airplane—Part V, Landing Gear and Hydraulic System.
1–899		50-hour Inspection of the A–26 Airplane—Part VI, Flight Control Mechanism and Instruments.
1–900		Fundamentals of Television—Part I, Basic Requirements. *Introduction to television, including: structure of the eye, fundamentals of optics, mechanics of visual representation, and requirements of a television system.*
1–901		Fundamentals of Television—Part II, Principles of Operation. *Principles of television, including: progressive scanning (mechanical), television camera (electronic), image reproduction, and, composite video signal.*
1–902		B–29 Airplane—General Characteristics.
1–903		B–29 Airplane—Preflight Inspection of Remote Control Turret System. *Visual, operational and harmonization checks made during preflight inspection.*
1–904		B–29 Airplane—Operation of the Auxiliary Power Plant. *Starting, operating, stopping and inspection of the D–2 auxiliary power plant.*
1–905		B–29 Airplane—Wheel Assemblies. *Nose and main wheel assemblies; inspection and maintenance; disassembly of the main landing gear wheel assembly.*
1–906		Mooring of Aircraft. *Procedures and cautions to follow; use of the D–1 mooring kit.*
1–907		Towing of Aircraft. *Procedures used in towing military aircraft, with special reference to bombardment type airplanes.*
1–908		AN/CTQ–1—Operations Center. *Components of the lightweight air-transportable operations center AN/CTQ–1, and the procedure for setting it up.*

FS No.	Year released	Subject
1–909		B–29 Airplane—Paralleling the Generators.
1–910		B–29 Airplane—Cabin Pressure Control. *System; unsupercharged regulation, isobasic regulation, and differential pressure regulation; relief values; maintenance and inspection.*
1–911	1944	Classification and Recognition of Clouds—Part I—High Clouds. *Types, identifying characteristics and symbols. (In color.)*
1–912	1944	Classification and Recognition of Clouds—Part II—Middle Clouds. *Types, identifying characteristics and symbols. (In color.)*
1–913	1944	Classification and Recognition of Clouds—Part III—Low Clouds. *Types, identifying characteristics and symbols. (In color.)*
1–914	1944	Classification and Recognition of Clouds—Part IV—Clouds of Vertical Development. *Types, identifying characteristics and symbols. (In color.)*
1–915	1944	Advanced Single Engine Training—Maximum Performance Operations. *Designed to show the advanced single-engine flying student the importance of learning maximum performance operations involved in slow flying, slow climbs, slow glide, spins, and transition maneuvers.*
1–916	1944	Advanced Single Engine Training—Formation Flying. *Designed to illustrate formation flying for the advanced single-engine student, including drill, offensive and string formations.*
1–917	1944	Advanced Single Engine Training—Acrobatics. *Acrobatics for the advanced single-engine student; loop, immelman, cuban eight, barrel roll, slow roll, half roll and back, and split-S.*
1–918	1944	(Classified.)**
1–919	1944	(Classified.)**
1–920	1944	Aerial Navigation—Aerial Sextant Pioneer Type AN5851–1. *Optical system of the Pioneer Type AN5851–1 sextant; bubble formation; operating, instructions; notes and precautions.*
1–921	1944	Forming of Aircraft Sheet Metal—Lay-out for Duplication of Plates. *Discusses developing the pattern on template material, transferring the pattern to form blocks, and transferring the pattern to metal and copying the lay-out.*
1–922	1944	Loop Radio Range—Construction of Antenna System. *Procedure to be followed.*
1–923	1944	Radio Receiver BC–779A—RF and HFO Alignment. *Aligning the following stages of radio receiver BC–779A: 1st RF, 2d RF, 1st detector, and HFO.*
1–924	1944	Radio Receiver BC–779A—IF, AVC, and BFO Alignment. *Aligning the following stages of radio receiver BC–779A: 1st IF, 2d IF, 3d IF, AVC, and BFO.*
1–925	1944	Radio Receiver BC–779A—Trouble Shooting.
1–926	1944	Radio Receiver BC–779A—Second Detector, Noise Limiter and Audio Stages.
1–927	1944	Radio Receiver BC–779A—Antennas, Input Line and Antenna Coupling.
1–928	1944	Radio Receiver BC–799A—RF and HFO Stages. *Operation of the following stages: 1st RF, 2d RF, 1st detector and HFO.*
1–929	1944	Link Trainer Maintenance—Sequence of Adjustments. *Sequence of tests and adjustments made on the link trainer following periodic inspections; basic adjustments, adjustment of vertical speed indicator.*

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FS No.	Year released	Subject
1-930	1944	Aerial Gunnery (Fixed)—Harmonization. *Designed to acquaint fighter pilots with methods of harmonization and the procedure for flight-testing harmonization of guns.*
1-931	1944	(Classified.)**
1-932	1944	(Classified.)**
1-933	1944	Emerson Nose Turret—Preflight Inspection.
1-934	1944	B-29 Airplane—Emergency Operation of Landing Gear, Wing Flaps, Brakes and Bomb Bay Doors.
1-935	1944	Forming of Aircraft Sheet Metal—Curving Preformed Angles. *Bending preformed angles by stretching and shrinking on a V-block and by using a shrinking block.*
1-936	1944	Calibration of M-Series Bombsight—Part I. *Illustrates and explains the following steps: checking alignment of vertical hair, setting pedestal reference index, establishing grid lines on true heading, synchronizing trail arm with crosstrail mechanism, aligning dovetail, and leveling the procession level, head of stand and stabilizer.*
1-937	1944	Calibration of M-Series Bombsight—Part II. *Illustrates and explains the following steps: erecting gyro to vertical, checking gyro leveling bubbles, erecting telescope transverse cross hair to vertical, erecting fore and aft cross hair to vertical, shaping flexible leads, and dividing backlash.*
1-938	1944	Calibration of M-Series Bombsight—Part III. *Illustrates and explains final steps in calibration, and procession checks of bombsight and stabilizer gyros.*
1-939	1944	Preflight Inspection of the C-47—The Crew Chief. *Various checks made during preflight inspection: before starting the engine, during and after engine warm-up.*
1-940	1944	The C-47 Airplane—Fuel System. *Fuel system and oil dilution system.*
1-941	1944	The C-47 Airplane Hydraulic System—Description and Operation. *Hydraulic system, including the hydraulic operated units, and the method of operating the system in an emergency.*
1-942	1944	The C-47 Airplane Hydraulic System—Inspection and Maintenance. *Daily and 50-hour inspections and maintenance.*
1-943	1944	The C-47 Airplane—Heating and Ice Eliminating Systems. *Various types of heating, de-icer and anti-icing systems.*
*1-944	1944	(Classified.)**
*1-945	1944	(Classified.)**
1-946	1944	Advanced Single Engine Training—Visual Checks. *Preflight checks by the pilot: cockpit procedure, taxiing and take-off in advanced single engine training.* (*Replaces FS 1-819.*)
1-947	1944	Parachute Landing Training. *Construction, operation, maintenance, and adjustment.*
1-948	1944	Aerial Navigation—Lambert-Conformal and Mercator Projections. *Principles, use and limitations of the Lambert-Conformal and Mercator projections in aerial navigation.* (*Replaces FS 1-191.*)

*Authorized for ASF training and for permanent retention by film libraries.
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FS No.	Year released	Subject
1–949	1944	Aerial Navigation—Earth's Surface. *Defines and explains such concepts as parallels of latitude, meridians, coordinates, statute and nautical miles, Great Circle, and Rumb-line courses. (Replaces FS 1–249.)*
1–950	1944	B–29 Airplane—Engine Starters. *Operation, inspection, and maintenance.*
1–951	1944	B–29 Airplane—Differential Type Current Control Relay. *Function, operating characteristics, and inspection and maintenance of the General Electric differential type current control relay.*
1–952	1944	Photographic Copying and Enlarging Kit, Type P–1. *Methods employed in using the Type P–1 kit for copying and enlarging with both the C–1 and C–3 cameras.*
1–953		Aerial Mines—Preparation and Loading Mark 12 (Mod. 1) in B–25. *Explains how to prepare and load the Mark 12 (Mod. 1) magnetic-needle type ground mine in the B–25 airplane.*
1–954		75-mm Aircraft Gun M5—Disassembly and Reassembly. *Describes procedures to be followed in disassembling and reassembling the breech mechanism of the 75-mm aircraft gun M5.*
1–955		75-mm Aircraft Gun M5 and Aircraft Mount M9—Inspections. *Describes preflight and 50-hour inspections of the 75-mm aircraft M5 gun and its M9 mount.*
1–956		75-mm Aircraft Gun M5 and Aircraft Mount M9—Cleaning and Lubrication. *Presents procedures and precautions to be followed in cleaning and lubricating the 75-mm aircraft M5 gun and its M9 mount.*
1–957		B–29 Airplane—Operation of Sighting Stations. *Describes the operation of the gunners' sighting stations on the B–29: turning on switches, operaton of the sight, combat tips, and procedure for stowing turrets.*
1–958		Photographic Papers—Water Resistant Type XII. *Presents characteristics and processing of type XII water resistant photographic papers.*
1–959		Photographic Processing Kit Type N–1—Assembly and Use. *Describes the methods employed in the assembly and operation of the Type N–1 kit for photographic processing.*
1–960		Air Position Indicator System. *Presents the principles of operation of the air position indicator system.*
1–961		(Confidential.)**
1–962		(Confidential.)**
1–963		(Confidential.)**
1–964		(Confidential.)**
1–965		Procedure for Weighing Airplanes. *Describes types of improper loading of airplanes. Illustrates equipment for weighing airplanes, and the proper procedures for its use.*
1–966		Television Image Faults. *Presents the characteristics of television image faults and their identification in relation to the diagnosis of signal faults and improper operation of television equipment.*

**Request title from film library.

FS No.	Year released	Subject
1-967		Wright R-1820-97 Engine—Part I—Preparation for Teardown. *Presents the preparation for teardown and preliminary disassembly of the R-1820-97 engine.*
1-968		Wright R-1820-97 Engine—Part II—Removal and Disassembling the Cylinders and Pistons. *Presents the procedure for removing and disassembling cylinders and pistons from R-1820-97 engines that have been partially disassembled.*
1-969		Wright R-1820-97 Engine—Part III—Disassembling Crankcase Front Section Units. *Presents the procedure for removing and disassembling valve tappets, propeller shaft, and crankcase front section of the R-1820-97 engine.*
1-970		Wright R-1820-97 Engine—Part IV—Disassembly of Supercharger Rear Housing. *Presents the procedure for removal and disassembly of supercharger rear housing, rear housing cover, and accessory drives contained in rear housing of the R-1820-97 engine.*
1-971		Wright R-1820-97 Engine—Part V—Disassembling Crankcase Main Section Units. *Presents the procedure for disassembling crankcase main section, crankshaft, master and articulated rod assembly and supercharger front housing of the R-1820-97 engine.*
1-972		Wright R-1820-97 Engine—Part VI—Cleaning and Magnetic Inspection. *Presents the procedure for cleaning engine parts of the R-1820-97 engine and the magnetic inspection of steel parts of the engine.*
1-973		Wright R-1820-97 Engine—Part VII—Inspection of Engine Parts—Section I. *Presents the procedure for inspecting crankcase front section units, crankcase main sections and supercharger front housing of the R-1820-97 engine.*
1-974		Wright R-1820-97 Engine—Part VIII—Inspection of Engine Parts—Section II. *Presents the procedure for inspection of the parts of the supercharger rear housing, supercharger rear housing cover, accessory drives, and oil sump of the R-1820-97 engine.*
1-975		Wright R-1820-97 Engine—Part IX—Inspection of Engine Parts—Section III. *Presents the procedure for inspecting crankshaft, master and articulated rods, cylinders, pistons, and related units of the R-1820-97 engine.*
1-976		Wright R-1820-97 Engine—Part X—Assembly of Crankshaft. *Presents the procedure for assembling component parts of the crankshaft of the R-1820-97 engine.*
1-977		Wright R-1820-97 Engine—Part XI—Assembly of Valves, Rocker Arms, etc. *Presents the procedures of assembling valves, pistons and piston rings, rocker arms, and the power section of the R-1820-97 engine.*
1-978		Wright R-1820-97 Engine—Part XII—Assembly of Crankcase Front Section. *Presents the procedure for assembling the crankcase front section of the R-1820-97 engine.*

FS No.	Year released	Subject
1-979		Wright R-1820-97 Engine—Part XIII—Assembly of Supercharger Rear Housing Section. *Presents the procedure of assembling the supercharger rear housing section of the R-1820-97 engine.*
1-980		Wright R-1820-97 Engine—Part XIV—Assembly of Oil Pump and Dual Accessory Drive. *Presents the procedure for assembling the oil pump and dual accessory drive on the R-1820-97 engine.*
1-981		Wright R-1820-97 Engine—Part XV—Assembly of Cylinders, Pistons, etc. *Presents the procedure for assembling the cylinders and pistons, and of installing crankcase front section, valve tappet guides, push rod housing, and oil sump of the R-1820-97 engine.*
1-982		Wright R-1820-97 Engine—Part XVI—Assembly and Installation of External Scavenge, Hydro-Oil Lines, etc. *Presents the procedure for assembling and installing of the external scavenge and hydro-oil lines, push rods and rocker arms, valve adjustment and timing of the R-1820-97 engine.*
1-983		Wright R-1820-97 Engine—Part XVII—Installation of Ignition Harness, Magneto Timing, etc. *Presents the procedure for installing ignition harness, cylinder barrel air deflectors, intake pipes, priming system and magneto adjustment, installation and timing on the R-1820-97 engine.*
1-984		Sperry Power Turret (Upper Local)—Operation of the Variable Limit Stop and Fire Interrupter. *Describes the mechanical principles upon which the variable limit stop and fire interrupter in the Model A-1A turret work.*
1-985		Sperry Power Turret (Upper Local)—Adjustments of the Variable Limit Stop and Fire Interrupter. *Describes procedures to follow in adjusting the variable limit stop and fire interrupter on the Model A-1A turret.*
1-986		B-29 Airplane—Electronic Turbo-Supercharger Regulator. *Presents the component parts and mechanical operation of the electronic turbo-supercharger regulator on the B-29 airplane.*
1-987		B-29 Airplane—Inspection of the 58-CPB-4 Carburetor. *Illustrates the steps to be covered in making preflight, daily, 25- and 50-hour inspections of the Model 58-CPB-4 carburetor on the B-29 airplane.*
1-988		Principles of Loading Aircraft. *Brief discussion of the principles involved in properly loading aircraft and the reasons therefor. Discusses Center of Gravity (CG), proper distribution of weight, and "allowable range."*
1-989		Loading the B-17F Using AAF Load Adjuster. *Detailed explanation of the use of the AAF Load Adjuster in loading B-17F with elevator downspring or bulbous trim tabs. Illustrates a typical problem of loading B-17F with full complement of crew members, bomb, gas, oil, and ammunition loads.*
1-990		Transition Phase (Basic Phase)—Part III. *Discusses standard stall recovery, characteristic stall (power-off), rudder controlled stall (power-off), normal recovery stall (both power-on and power-off) and approach to a stall. (Replaces FS1-581, same title.)*

FS No.	Year released	Subject
1-991		B-29 Airplane—Maintenance of Sighting Stations. *Presents the nomenclature and maintenance procedures for the remote control sighting stations on the B-29 airplane.*
1-992		Preflight Inspection of the P-47 Airplane—The Crew Chief. *Presents procedures to follow in preflight inspection of the P-47 airplane, including before starting the engine, and during and after engine warm-up.*
1-993		Radio Receiver BC-779A—Crystal Filter Circuit. *Presents the principles of operation of the crystal filter circuit for radio receiver BC-779A.*
1-994		Radio Receiver BC-779A—IF, AVC, and BFO Stages. *Principles of operation of the IF, AVC, and BFO circuits in radio receiver BC-779A.*
1-995		Radio Receiver BC-779A—Power Supply Unit RA-84A. *Presents a description of the power supply unit RA-84A in radio receiver BC-779A.*
1-996		50-hour Inspection of the P-61 Airplane—Part I—General. *Presents general procedures in starting the 50-hour inspection of the P-61 airplane.*
1-997		50-hour Inspection of the P-61 Airplane—Part II—Propellers and Engines. *Describes procedures to be followed in performing 50-hour inspection of engines and propellers on the P-61 airplane.*
1-998		50-hour Inspection of the P-61 Airplane—Part III—Fuel, Oil, and Heating Systems. *Describes procedures to be followed in performing 50-hour inspection of fuel, oil, and heating systems on the P-61 airplane.*
1-999		50-hour Inspection of the P-61 Airplane—Part IV—Electrical System and Instruments. *Describes the procedures to be followed in performing 50-hour inspection of the electrical system and instruments of the P-61 airplane.*
1-1000		50-hour Inspection of the P-61 Airplane—Part V—Landing Gear, Hydraulic, and Ice Eliminating Systems. *Describes the procedures to be followed in performing 50-hour inspection of the landing gear, hydraulic, and ice eliminating systems on the P-61 airplane.*
1-1001		50-hour Inspection of the P-61 Airplane—Part VI—Flight Control Mechanism and Automatic Pilot. *Describes the procedures to be followed in performing 50-hour inspection of the flight control mechanisms and the A-3A automatic pilot on the P-61 airplane.*
1-1002		Photographic Processing Kit Type N-2. *Describes the methods employed in the assembly and use of the photographic processing kit, Type N-2.*
1-1003		B-29 Airplane—Main Landing Gear. *Presents the B-29 main landing gear; disassembly and reassembly of its component parts.*
1-1004		50-hour Inspection of P-51C Airplane—Part I—General. *Presents general procedures for performing 25- and 50-hour inspection of the P-51C airplane.*

FS No.	Year released	Subject
1–1005		50-hour Inspection of P–51C Airplane—Part II—Propellers and Engine. *Presents procedures for performing 50-hour inspection on Hamilton Standard Hydromatic propeller and the Packard Rolls-Royce V–1615 engine in the P–51C airplane.*
1–1006		50-hour Inspection of P–51C Airplane—Part III—Fuel, Oil and Cooling Systems. *Presents procedures for making 50-hour inspection of the fuel, oil, and cooling systems on the P–51C airplane.*
1–1007		50-hour Inspection of P–51C Airplane—Part IV—Electrical System. *Presents procedures for 50-hour inspection of ignition system, switches, wiring, and other parts of electrical system on the P–51C airplane.*
1–1008		50-hour Inspection of the P–51C Airplane—Part V—Landing Gear and Hydraulic System. *Presents procedures for 50-hour inspection of the landing gear and hydraulic system of P–51C airplane.*
1–1009		50-hour Inspection of P–51C Airplane—Part VI—Flight Controls and Instruments. *Presents procedures for making 50-hour inspection of flight control mechanism and instruments on the P–51C airplane.*
1–1010		Pilot's Introduction to the C–47 Airplane—Part I. *Designed to familiarize the pilot with the emergency equipment, entrances and emergency exits, power plant and propellers, and engine oil system of the C–47 and C–47A airplanes.*
1–1011		Pilot's Introduction to the C–47 Airplane—Part II. *Designed to familiarize the pilot with the electrical, fuel, hydraulic, heating, and ice eliminating systems on the C–47 and C–47A airplanes.*
1–1012		B–29 Airplane—The Basic Airplane. *General description of the B–29 airplane. Designed to aid the instructor in orienting B–29 basic students to the airplane. A companion film strip for FS 1–902.*
1–1013		50-hour Inspection of A–20 Airplane. *Describes procedures for making 50-hour inspection of the engines and propellers on the A–20 series airplane.*
1–1014		50-hour Inspection of A–20 Airplane—Part II—Fuel and Oil System. *Describes procedures for making 50-hour inspection of the fuel and oil systems on the A–20 series airplane.*
1–1015		50-hour Inspection of A–20 Airplane—Part III—Ignition and Electrical System. *Describes procedures for making a 50-hour inspection of the ignition and electrical systems on the A–20 series airplane.*
1–1016		50-hour Inspection of A–20 Airplane—Part IV—Landing Gear and Hydraulic System. *Describes procedures for making the 50-hour inspection on the landing gear and hydraulic system of the A–20 series airplane.*
1–1017		50-hour Inspection of A–20 Airplane—Part V—Instruments. *Describes procedures for making a 50-hour inspection on the various instruments of the A–20 series airplane.*
1–1018		50-hour Inspection of A–20 Airplane—Part VI–Miscellaneous. *Describes procedures for making 50-hour inspection on flight controls, flight control surfaces, and other miscellaneous items on the A–20 series airplane.*

FS No.	Year released	Subject
1–1019		50-hour Inspection of A–20 Airplane—Part VII—Auxiliary Equipment. *Describes procedures for making a 50-hour inspection on the bomb bay, bomb racks, turrets, guns, and other auxiliary equipment on the A–20 series airplane.*
1–1020		Mobile D/F Station—CNS Antenna Theory. *Illustrates the principles of operation of the Control Network System direction finding antenna.*
1–1021		Mobile D/F Station—Erection of the 75-foot Plywood Antenna Mast. *Illustrates the approved method of erecting the 75-foot plywood antenna mast for the mobile D/F station.*
1–1022		Mobile D/F Station—Erection. *Illustrates the approved method of erecting radio set SCR–575A, a mobile direction finding station.*
1–1023		Mobile D/F Station—Orientation. *Illustrates the approved methods of orienting radio set SCR–575A, a mobile direction finding station.*
1–1024		Mobile D/F Station—Routine Checks. *Illustrates the approved methods of making routine checks on equipment of a mobile direction finding station using SCR–575A.*
1–1025		Mobile D/F Station—Fixer Operation. *Illustrates use of mobile D/F station as a fixer in a fighter control network system.*
1–1026		Mobile D/F Station—Homer Operation. *Illustrates use of a mobile D/F station as a direction finding station for homing airplanes.*
1–1027		Photographic Water Supply Kit Type O–1. *Describes the method employed in the assembly and operation of the photographic water supply kit, Type O–1.*
1–1028		Formation Flying (Heavy Bombardment). *Describes position of individual planes in the element, and position of planes and the element in a squadron; notes for second element leaders and wingmen; the combat wing positions.*
1–1029		Formation Flying (Heavy Bombardment)—Part II—Take-off Procedures. *Describes take-off procedures for the heavy bombardment formation. Includes briefing for flight, taxiing, take-off, and assembly after take-off.*
1–1030		Formation Flying (Heavy Bombardment)—Part III—Landing Procedure. *Illustrates formation approach to the airdrome, breakaway procedures, and traffic patterns for the landing.*
1–1031		Formation Flying (Heavy Bombardment)—Part IV—Weather Procedure. *Illustrates heavy bombardment formation flying in bad weather. Includes ascent through overcast, descent through overcast, and frontal penetration.*
1–1032		Bomber-Pilot Approach—Part I—Preflight and Air Adjustment. *Designed to acquaint the pilot of a bomber with the duties of the bombardier, his procedures, equipment and problems, and the pilot's corresponding responsibilities during preflight and air adjustment of the C–1 automatic pilot and bombing equipment.*

FS No.	Year released	Subject
1–1033		Bomber-Pilot Approach—Part II—Bombing Run. *Designed to acquaint the pilot of a bomber with the duties of the bombardier and the pilot's corresponding responsibilities during the bombing run, when using the C–1 automatic pilot equipment.*
1–1034		Photographic Water Supply Kit, Type O–2. *Describes the methods employed in the assembly and operation of photographic water supply kit, Type O–2.*
1–1035		Microphones. *Presents the principles of operation of the following types of microphones and their application to electrical circuits: carbon, crystal, condenser, dynamic, and ribbon.*
1–1036		Curtiss Electric Four-Blade Propeller. Assembly and Adjustment of Power Unit. *Illustrates procedures for assembly and adjustment of motor, brake, cut-out cam, and power gear assemblies of the power unit Model C543S–C of the Curtiss electric 4-blade propeller.*
1–1037		B–29 Airplane—Nose Landing Gear and Tail Skid. *Presents the disassembly and assembly procedures for the nose landing gear and tail skid of the B–29 airplane.*
1–1038		B–29 Airplane—Flight Control Mechanisms. *Describes the operation and rigging of the flight control mechanisms of the B–29 airplane.*
1–1039		Advanced Two-engine Training—Formation Flying. *Discusses the fundamentals of good formation flying: air discipline, maximum coordination, and minimum control and throttle movements.*
1–1040		Aerial Navigation—Principles and Operation of API. *Describes the functions of the components and the operation of the air position indicator system.*
1–1041		Aerial Navigation—Compensation of Heading Mechanism of API. *Describes the equipment and procedure for compensation of the heading mechanism of the air position indicator system.*
1–1042		Aerial Navigation—Automatic Radio Compass. *Describes components and operation of automatic radio compass SCR–269–A–C–G. Includes position finding (both visual and aural-null methods), and homing operation. (Replaces FS 1–539, same title.)*
1–1043		Aerial Navigation—Operation of B–3 Driftmeter. *Describes care and operation of the B–3 driftmeter. Also discusses field of vision, reading drift, and measuring relative bearings. (Replaces FS 1–324, same title.)*
1–1044		Milling Machines—General, Part II. *Presents essential features, lubrication, operation, and safety precautions for universal milling machines.*
1–1045		B–29 Airplane—Alfite Fire Extinguisher System. *Presents the construction, operation, maintenance, and inspection of the fixed fire extinguishing system used in the B–29 airplane.*
1–1046		B–29 Airplane—Lubrication. *Presents the lubrication procedures and types of lubricants used during inspection periods on the B–29 airplane. Does not include engine lubricants.*

FS No.	Year released	Subject
1–1047		AAF Emergency Rescue Boats—Boat Nomenclature. *Describes the correct nomenclature for the main parts, equipment, fittings, rigging, and stations of AAF rescue boats.*
1–1048		AAF Emergency Rescue Boats—Types of AAF Rescue Boats. *Presents the 45-, 63-, 85-, and 104-foot AAF rescue boats, their dimensions, equipment, and crew.*
1–1049		AAF Emergency Rescue Boats—Construction Principles and Emergency Repairs of Small Boats. *Describes the principles of construction and methods of effecting emergency repairs on small rescue boats.*
1–1050		AAF Emergency Rescue Boats—Fire Fighting. *Presents the equipment and procedures used in fighting fire aboard AAF rescue boats and at sea, to protect boats and personnel when attempting rescue.*
1–1051		AAF Emergency Rescue Boats—Semaphore Signaling. *Describes the semaphore system of hand signaling used in AAF rescue boat crews.*
1–1052		AAF Emergency Rescue Boats—International Code of Signals. *Explains the International Code of Signals and describes the procedure for its use.*
1–1053		AAF Emergency Rescue Boats—Engine Starting and Operating Procedures on the 85-foot Boat. *Presents the correct procedure for starting, operating, and stopping the engines on the 85-foot AAF rescue boat.*
1–1054		AAF Emergency Rescue Boats—Engine Starting and Operating Procedures on the 63-foot Boat. *Presents the correct procedure for starting, operating, and stopping the engines on the 63-foot AAF rescue boat.*
1–1055		AAF Emergency Rescue Boats—Docking Procedure. *Presents the procedures and precautions used in docking AAF rescue boats.*
1–1056		AAF Emergency Rescue Boats—The Electrical System in the 85-foot Rescue Boat. *Presents the operation and routine maintenance of the 110-volt d-c electrical system in the 85-foot rescue boat.*
1–1057		AAF Emergency Rescue Boats—Hermetic Combustion Heaters. *Presents the operation and control of the Stewart-Warner Model 792–E Hermetic Heater as used in 85- and 63-foot AAF rescue boats.*
1–1058		AAF Emergency Rescue Boats—Electrical System of the 63-foot Rescue Boat. *Presents the location and operation of the various units in the electrical system of the 63-foot AAF rescue boat.*
1–1059		AAF Emergency Rescue Boats—Personal Safety Aboard Ship. *Describes the principles of personal safety to be followed by AAF emergency rescue boat crews.*
1–1060		Curtiss Electric Four-Blade Propeller—Disassembly of Power Unit. *Describes the disassembly of power gear, cut-out cam, brake, and motor assemblies of power unit Model C543 S–C on the Curtiss electric 4-blade propeller.*

b. Army Service Forces and Army Ground Forces Film Strips.

(1) *Sound Film Strips.*

SFS No.	Year released	Subject	Remarks
5–56	1944	Care and Maintenance of Steam Boiler Plants.	
5–58	1944	U. S. Army No. 1 Space Heater. Care and Firing. *Describes the space heater, the care of it, how to fire it correctly, and rules for the fireman tending the heater. (Reference.*	
8–52	1943	Mess Improvement—Part I—Promoting Good Food Habits (Color). *Procedures of food planning, storage, preparation, cooking, and serving that will function to protect the essential nutrients of the food and encourage adequate consumption. Reference.*	
8–53	1943	Mess Improvement—Part II—Food for Health (Color). *Food supplied, waste, basic food essentials, and the relationship between the important vitamin deficiencies and the major sources of vitamins in the soldiers' diet. Reference.*	
9–183	1944	Identification of Ammunition—Part III—Small Arms. *Reference.*	
9–255	1944	Track and Torsion Bar Suspension, 76-mm Gun Motor Carriage M18—Part I—First Echelon Inspection and Maintenance. *Describes briefly the track system of the M18 and the compensating link assembly. Goes into detail with first echelon inspection. Reference.*	
9–256	1944	Track and Torsion Bar Suspension, 76-mm Gun Motor Carriage M18—Part II—Second Echelon Inspection and Maintenance. *Deals with the major items in second echelon inspection and maintenance. Covers material contained in AGO Form 462. Reference.*	
9–257	1944	Track and Torsion Bar Suspension, 76-mm Gun Motor Carriage M18—Part III—Second Echelon Disassembly and Assembly. *Shows correct method and order in which the track, sprocket, torsion bars and other related equipment should be disassembled and assembled. Reference.*	
9–258	1944	How to use SNL'S (Standard Nomenclature Lists)—Part I. *Reference.*	
9–259	1944	How to use SNL'S (Standard Nomenclature Lists)—Part II. *Reference.*	
11–14	1943	Selection of Sites for Field Radio Stations. *Examples of good and bad sites from both tactical and operational viewpoints*	No notes.
11–28	1943	Phonetic Alphabet and Pronunciation of Numerals. *Each etter of the alphabet is illustrated by a descriptive drawing. Numerals are spelled out for correct pronunciation. Practice exercises are included*	Do.

SFS No.	Year released	Subject	Remarks
11–40	1944	Radio Set SCR–506—Part III—Presetting. *Directions for tuning preset frequency channels and the tunable channel safety precautions, and 10 questions with answers*	No notes.
11–44	1944	The Sound Reproducer MC–364. *Setting up and operating procedure with operating tips and precautions*	Do.
11–70	1944	Photographic Chemistry. *Major phases of photographic chemistry including weights and measures, temperature and kinds of solutions, forms of chemicals, chemistry of emulsion, development, stop bath, fixation, and washing. Reference.*	
21–1	1944	Film Strip Use in Military Training. *Reference.*	
21–3	1944	The Organization of the Army. *Describes to army personnel the higher organizations of the Army. Covers the organization of the Army from the President (Commander-in-Chief) down to the three major commands, Army Air Forces, Army Ground Forces, Army Service Forces, and to Theaters of Operation.*	
30–1	1943	The Japanese Soldier. *A vivid portrayal of the life of the Japanese soldier from his early childhood until he becomes an active warrior in the Imperial Army; reveals his environment, characteristics, and beliefs. Strenuous training methods are described. Reference.*	
30–2	1943	The German Soldier. *A brief history of German militarism. Presents the old and new methods of warfare which were practiced and perfected by the German Army; describes the intensive training methods imposed upon individuals and youth groups; stresses the fact that the German soldier is well trained in military science and tactics. Reference.*	
30–3	1943	Censorship of Mail. *Portions of personal letters which would reveal important information if the letters were procured by the enemy. Points out how easy it is to reveal vital facts, and how the enemy pieces bits of information together regarding location and movements of troops, equipments, etc. Reference.*	
38–3	1944	Warehousing at War—Part I—Labor. *Aimed primarily at officers and executive civilian personnel in Zone of Interior Depots, "Labor" presents approved doctrine for handling of depot touchlabor. Reference.*	
38–4	1944	Warehousing at War—Part II—Space. *Strip deals with the proper allocation of space for storing of supplies in Army warehouses and depots. Reference.*	
38–8	1944	Stock Control Practices—Part I—Control Levels. *The objective of this film strip is to show supervisory per-*	

SFS No.	Year released	Subject	Remarks
		sonnel the responsibilities of their jobs and to show them how to accomplish it. Reference.	
38–9	1944	Stock Control Practices—Part II—Stock Record Cards. *How to use the stock record card and demonstrates its purpose and importance in stock control practice. Reference.*	
38–10	1944	Marking Supplies for Overseas Shipment. *Deals with the correct procedure in marking containers and packages for delivery overseas. It deals with correct address procedure, color and other markings, illustrating correct form and position. Reference.*	
80–2	1944	On-the-Job Supervision—Part I—The Cost of an Error. *First in a series on Job Instruction Training; needless sacrifice of life on the battlefield caused by an error in shipping supplies; supervisor's responsibility for thoroughly training his employees.*	
80–3	1944	On-the-Job Supervision—Part II—Spotting Immediate Training Needs. *Another in the Job Instruction Training Series; Supervisor's making of a training time table, listing all employees and their job in his department so that personnel turnover, leaves, performance, and present and future work loads can be considered in planning the training of employees.*	
80–4	1944	On-the-Job Supervision—Part III—The Job Breakdown. *Another in the Job Instruction Training Series; process of training the employee on a new job through the job break-down method which first identifies the job, then lists its important steps, and finally determines its key points.*	
80–5	1944	On-the-Job Supervision—Part IV—The Four Steps. *Another in the Job Instruction Training Series; four steps in the training and instruction of the employee: preparation of the worker, presenting the operation, trying out the performance, and follow up.*	
80–7	1944	On-the-Job Supervision—Kinda Give it Your Personal Attention. *One of a series on Job Methods Training; need for new ideas for job improvement and shows how both supervisor and worker can originate and develop those new ideas.*	

(2) *Silent Film Strips.*

FS No.	Year released	Subject	Remarks
2–2	1942	Thompson Submachine Gun M1928A1, Cal. .45—Manual of Arms, Loading and Firing, Stoppages and Immediate Action	No notes.

FS No.	Year released	Subject	Remarks
2–3	1942	Thomspon Submachine Gun M1928A1, Cal. .45—Mechanical Training—Part II. *Disassembly and assembly of groups; function of the weapon; spare parts and accessories*	No notes.
2–7	1942	Horsemanship Instruction, Mounted—Supplying Exercises and Riding Hall Movements. *Supplying exercises pictured and basic riding hall movements diagrammed*	Do.
2–8	1942	Horsemanship Instruction, Mounted—Jumping and Cross-Country Riding. *Adjustment of equipment for jumping; gymnastics of the jump; use of the half saddle position while mounted; cross-country riding*	Do.
2–9	1942	Horsemastership Instruction—Shoeing Animals. *Examination for need of shoeing; normal shoeing; inspection of newly shod horse; corrective shoeing; horseshoeing equipment*	Do.
2–10	1942	Thompson Submachine Gun M1928A1, Cal. .45—Mechanical Training—Part I. *Nomenclature; disassembly of groups; care and cleaning; reassembly; ammunition; method of transport*	Do.
2–11	1942	Horsemanship Instruction—Mounting, Dismounting, and the Military Seat. *Mounting and dismounting; diagram showing breakdown of military seat*	Do.
2–13	1942	Horsemastership Instruction—Stable Management. *Cavalry unit in the following stable duties: construction of garrison and field picket lines; ventilation; grooming; use of blankets; use of restraint in handling animals*	Do.
2–14	1942	Horsemastership Instruction—Feeding and Watering. *Digestive system of animals; rules for feeding, constituents, proportions, and preparation; rules for watering under average conditions*	Do.
2–17	1942	Browning Machine Gun, Cal. .30, M1919A4—Stoppages and Immediate Action, Technique of Fire	Do.
2–19	1943	The Cavalry Regiment, Horse. *Organization of the horse cavalry. Charts do not cover drill or combat formations*	Do.
2–20	1943	Common Field Training Mistakes. *Good and bad field training practices performed by units under combat conditions on Louisiana maneuvers. 1942*	Do.
2–21	1943	Combat Methods of Small Units—The Squad Acting Alone. *Issuance of warning order and preparatory procedure for going on reconnaissance with full field equipment; inspection; precautions and final orders. Detailed action under tactical situations encountered on reconnaissance*	Do.
2–22	1943	The Use of the Lensatic Compass. *Both day and night use demonstrated by photograph, charts, and sketches of terrain. Stresses the necessity for remaining at a certain distance from all metallic objects when reading the compass. Reference.*	

FS No.	Year released	Subject	Remarks
2–23	1943	Simple Land Navigation for Combat Vehicles. *Obtaining knowledge of the direction and position of enemy forces, and point-to-point navigation by the following methods: use of watch, compass, and odometer; use of various landmarks, and position of the sun, moon, and certain stars. Reference*	Notes.
2–24	1943	Arm and Hand Signals for Cavalry Drill. *Signals for horse cavalry; mechanized cavalry. Reference*	Do.
2–25	1943	Fire Adjustment of the Antitank Gun. *Methods of sighting the 37-mm antitank gun by means of the telescopic sight M6 in directing fire against fixed and moving targets; adjusting fire; aiming with leads; sight adjustment by means of bore sighting. Reference*	Do.
2–26	1943	Employment of Small Automatic Weapons. *Employment of light and heavy caliber .30 machine guns; application of the fundamentals of machine-gun fire as taught in marksmanship training; characteristics and classes of machine-gun fire, fire distribution, overhead fire and influence of terrain in the selection of machine-gun positions. Reference*	Do.
2–27	1943	How To Tie the Sweeten Diamond and Phillips Cargo Hitches	No notes.
2–28	1943	Combat Orders. *Part I deals with command procedure; Part II, with field orders; Part III, with the patrol leader's order*	Do.
2–29	1943	Packing the McClellan Saddle. *Nomenclature, articles and equipment carried, where carried and how packed*	Do.
2–30	1943	Fitting and Adjusting the Phillips Pack Saddle. *Nomenclature and method of fitting and adjusting. Explains sensitive regions of horse, methods of determining badly fitting areas, saddle adjustment tools, adjustment for injuries*	Do.
2–31	1943	Movement Over the Ground. *Procedure for individuals and for squads dismounted and mounted on horses*	Notes.
2–32	1943	The Platoon Acting Alone—The Rifle Platoon, Horse Cavalry. *Formation, conduct, and methods of operation*	No notes.
2–33	1944	Tactical Formations of Small Cavalry Units, Mechanized. *Deals with vehicles, weapons, and radios within the platoon; tactical formations of the platoon when on a reconnaissance or security mission; dismounted parties taken from the reconnaissance platoon; light tank platoon formations on a reconnaissance mission. Reference*	Do.
2–34	1944	Combat Formations of Small Cavalry Units, Horse. *Formations, both mounted and dismounted, of the rifle squad and platoon; the machine-gun squad, section and platoon; the heavy machine-gun squad, section and*	

FS No.	Year released	Subject	Remarks
		platoon; the .50 caliber machine-gun squad, section and platoon, and the 81-mm mortar squad, section and platoon.	
2–35	1944	The Car, Armored, Light, M8—Part IV—Trouble Shooting. *Mechanical failures that may occur during operation of the light armored car; remedial measures taken by the driver or organizational maintenance crew*----------	No notes.
2–36	1944	The Car, Armored, Light, M8—Part I—Operating Instructions and Controls. *Manual and automatic controls of the vehicle: purpose, function, and operation of each. Reference.*	
2–37	1944	The Car, Armored, Light, M8—Part II—Driver Maintenance. *Required maintenance and inspections made by the driver and crew.*	
2–38	1944	The Car, Armored, Light, M8—Part III—Lubrication. *As performed by the driver as necessary, or by second echelon personnel on lubrication schedules. Reference.*	
3–5	1941	Nomenclature and Air Flow System, Training Gas Mask. *Detailed nomenclature. Passage of air through mask*---	Notes.
3–6	1941	Nomenclature and Parts of Miscellaneous Gas Masks. *Nomenclature of miscellaneous military masks and respirators*----------	Do.
3–7	1941	Principles of Gasproofing for Shelters. *Two general types of gasproof shelters (ventilated and unventilated) improvisation*----------	Do.
3–8	1942	Nomenclature and Air Flow System, Horse Gas Mask, M4 and M5. *Nomenclature for structural differences, components, parts, use with the equipment, air flow system, packing.*	Do.
3–11	1942	Hand Decontaminating Apparatus M1 and M2. *Description, storage, shipment, care, and safety precautions of the two types of hand decontaminating apparatus and their accessories*----------	No notes.
3–13	1943	Irritant Candles, Tear Gas Pots, and Smoke Pots. *Functions of DM irritant gas candle M2: CN tear gas pot M1, and HC smoke pot M1: purpose, identification, fuel container, function, precautions in handling and packing*----------	Do.
3–14	1942	The Portable Chemical Cylinder, Nomenclature and Assembly. *Nomenclature and assembly and instructions for wiring for electrical firing of the portable chemical cylinder; packing and shipping; cleaning, testing, and drying; and filling and charging of the cylinder*----------	Notes.
3–15	1942	Protective Clothing—Types of Protective Clothing, Permeable and Impermeable. *Demonstration of chemically treated outer and under-*	

FS No.	Year released	Subject	Remarks
		clothing, socks and shoes; adjustment for maximum protection against gas; correct treatment for preservation and decontamination	Notes.
3–16	1943	Firing Devices for Chemical Munitions. *Description, use, packing, and precautionary measures of handling of fuse and detonator No. 8; ignitor fuse with fuse lights; Livens projector fuse, detonator No. 8 (electric blasting cap), and various types of squibs. Reference*	Do.
3–17	1943	The Impregnating Plant M1. *Diagrammatic description of the vital parts of an impregnating plant. Complete process is explained*	No notes.
3–18	1943	The 4.2-inch Chemical Mortar—Part I—Nomenclature, Characteristics, and Accessories.	
3–19	1943	The 4.2-inch Chemical Mortar—Part II—Ammunition. *Chemical mortar shell, fuses, ignition cartridge and propellant power rings; fittings required for 4.2-inch shells in zone of interior and theater of operations; identification markings of chemical shell. Reference.*	
3–21	1943	Portable Flame Thrower M1A1—Part I—Characteristics and Employment. *Reference.*	
3–22	1943	Portable Flame Thrower M1A1—Part II—Filling Pressure Units	Notes.
3–23	1943	Portable Flame Thrower M1A1—Part III—Cleaning and Maintenance After Use. *Reference.*	
3–24	1943	Chemical Cloud Travel. *Effect of wind, air current, temperature, humidity, rain, mists, and terrain on gas clouds and smoke clouds. Reference.*	
3–25	1943	Defense Against Chemical Attack—Part I. *Forms of chemical attack and protection needed against each; methods of detecting gases; classification of chemical agents, and brief outline of what a soldier must know to keep from becoming a casualty.*	
3–26	1943	Defense Against Chemical Attack—Part II—Casualty Agents. *Groups of casualty producing gases, their effect on the body, how each is spread, protection needed, first aid and how to identify.*	
3–27	1943	Defense Against Chemical Attack—Part III—Harassing, Screening, and Incendiary Agents. *Shows how vomiting and tear gases are spread, protection needed, and first aid. Also, methods of projecting screening smokes and incendiaries.*	
3–29	1944	Nomenclature and Air Flow of the Service Gas Masks. *The service and lightweight service gas mask and component parts of each, and air flow through a gas mask.*	
3–30	1944	Minor Repairs and Disinfection of Service Gas Mask. *Repairing of gas mask with M2 and M8 repair kits and use of M1 gas mask disinfectant.*	

FS No.	Year released	Subject	Remarks
3-33	1944	Portable Flame Thrower, M2-2—Part I—Nomenclature and Operation. *Correct nomenclature and operation of the M2-2 flame thrower. Reference.*	
3-36	1944	The 4.2-inch Chemical Mortar—Part IV—Nomenclature and Use, Telescope Mount, M59 and Elbow Telescope, M62. *Nomenclature and basic principles of use of the telescope mount, M59, and the elbow telescope, M62, and instrument light T-16.*	
4-1	1941	Characteristics of Naval Targets. *Surveys types of naval vessels in principal navies of the world. Emphasis on identification. Representative views with pertinent data as to displacement and armament*	Notes.
4-6	1941	Seacoast Artillery Weapons and Matériel—Part I. *Classification; construction; supports; carriages and mounts; recoil and counterrecoil, elevating, and traversing mechanisms*	Do.
4-7	1941	Seacoast Artillery Weapons and Matériel—Part II. *Obturation; breechblocks; firing mechanisms; loading mechanisms*	No notes.
4-8	1941	Seacoast Artillery Weapons and Matériel—Part III. *Sights; guns, fixed and mobile; subcaliber guns and tubes; seacoast searchlights*	Notes.
4-13	1942	Antiaircraft Searchlight, Sperry M1941—Introduction, Nomenclature, Principal Electric Circuits—the Antiaircraft Problem	Do.
4-14	1942	Antiaircraft Searchlight, Sperry M1941—Ventilating System, Zero Reader, Follow-up System. *Parts and operation*	Do.
4-15	1942	Fire Control and Position Finding for Antiaircraft Artillery—Part I—Elements of Data. *Finding data for a point in space so that shell may burst at this point*	Do.
4-16	1942	Antiaircraft Gun and Accessories—Part II—90-mm Antiaircraft Gun. *Proper positions in regard to placement of guns; description of parts and mechanism of the mount, trailer, and breech*	Do.
4-17	1942	Fire Control and Position Finding for Antiaircraft Artillery—Part II—Elements of Data—Automatic Weapons. *Elements of data used in solving the gunnery problem*	Do.
4-18	1942	The 155-mm Gun Regiment—Part II—Matériel—Section I. *General characteristics of the gun, carriage, breech and accessory parts. Quiz*	Do.
4-19	1942	The 155-mm Gun Regiment—Part II—Matériel—Section II. *Parts and matériel; mechanical assembly and disassembly for parts of carriage. Test on nomenclature*	Do.

FS No.	Year released	Subject	Remarks
4–20	1942	The 155-mm Gun Regiment—Part II—Matériel—Section III. *Parts and functions of the telescope mount, gunner's quadrant, panoramic telescope, limber, 37-mm subcaliber mount and 37-mm tank cradle; projectiles and methods of marking and pointing*	Notes.
4–21	1942	Antiaircraft Artillery Guns and Accessories—Part I—3-inch AA Gun M3, Mount M2A2. *Traveling position, brake action, emplacement and leveling of gun, equilibrator adjustment, elevation adjustment and operation. Includes statistical data and quiz*	No notes.
4–22	1942	Antiaircraft Searchlight, Sperry M1941—Distant Electric Control System, Lamp and Lamp Control Mechanism. *Quiz at the end covers all three film strips on the Sperry searchlight*	Do.
4–23	1942	Antiaircraft Searchlight, General Electric M1941—Introduction, Nomenclature, Principal Electric Circuits—the Antiaircraft Problem.	
4–24	1942	Fire Control and Position Finding for Antiaircraft Artillery—Part III—Position Finding and the Linear Speed Method Theory. *Cartoons give continuity to diagrams and photographs designed to solve problems in determining present position and predicting future positions. True-false quiz.*	
4–25	1942	Antiaircraft Searchlight, General Electric M1941—Ventilating System, Lamp and Lamp Control Box. *Diagrammatic description and captions*	No notes.
4–26	1942	Antiaircraft Artillery Automatic Weapons—Part I—The Director M5. *Nomenclature; principles and theory of operation and limits of direction; tripod M7 and generating unit, M5*	Do.
4–27	1942	Fire Control and Position Finding, Seacoast Artillery—Part I—Basic Principles. *Azimuth; angles and their measurement; use of horizontal angles; computation of horizontal distance, measured in yards*	Notes.
4–28	1942	Identification of Merchant Ships. *Classification according to type and characteristics; information translated into symbols*	Do.
4–29	1942	Antiaircraft Artillery Automatic Weapons—Part V—Browning Machine Gun, Cal. .50, M2, Water-Cooled, and Mounts. *Nomenclature; precautions to be taken before, during and after fire; head space adjustment; immediate action in case of stoppage*	No notes.
4–30	1943	Antiaircraft Searchlight, General Electric M1941—Distant Electric Control System and Data System	Do.

FS No.	Year released	Subject	Remarks
4–31	1942	Coast Artillery Ammunition—Part I—General Information. *Section I defines a round of ammunition, and discusses the three elements of ammunition; section II, kind of powder and where used; section III, forms of packaging ammunition; section IV, general information about powder, requirements in military explosives*----	Notes.
4–32	1943	Rigging for Barrage Balloons. *Mooring, rigging, and handling lines, repair of rigging; splices; knots and their uses*----------	Do.
4–33	1943	Orientation—Part I—General. *General view of the orientation problem. Terms and equipment used in solving it*----------	No notes.
4–34	1943	Orientation—Part II—Instruments. *Purpose and use of instruments; staking and plotting direction; correction of instrumental errors*----------	Do.
4–35	1943	Orientation—Part III—Methods of Designating Location *Designating location by coordinate systems; finding distances and azimuths by means of coordinate numbers*--	Do.
4–36	1943	Orientation—Part IV—Methods of Determining Position. *Determining position by traverse, intersection, and resection*----------	Do.
4–37	1943	Orientation—Part V—Azimuth Determination: Approximate Methods, Elementary Astronomy. *Approximate methods of azimuth determination and elements of astronomy necessary to understand methods of observation on celestial bodies for determination of azimuth*----------	Do.
4–38	1943	Orientation—Part VI—Stellar Observations, Northern Hemisphere. *Precise methods of azimuth determination in the northern hemisphere.*	
4–39	1944	Orientation—Part VII—Azimuth Determination by Solar Observation. *Precise methods of azimuth determination by making observations on the sun*----------	No notes.
4–40	1943	Orientation—Part VIII—Stellar Observations, Southern Hemisphere. *Methods of observation that may be used in the southern hemisphere. The methods permit observation on any star and do not require the use of precise time. The solution of the astronomical problem is simplified by using the altitude method of observation*----------	Do.
4–41	1943	Fire Control and Position Finding for Antiaircraft Artillery—Part VIII—Data Transmission Theory. *Data transmission and the theory of the alternating current system of data transmission. Quiz*----------	Do.

FS No.	Year released	Subject	Remarks
4–42	1943	Barrage Balloon Lethal Devices. *Operation of the Mark II and Mark VI links; disassembly; manner of attaching to the flying cables. Rigging and packing the parachute*	Notes.
4–43	1943	Barrage Balloons—Very Low Altitude Balloon, Mark VI and M1. *Nomenclature, the bed and handling*	No notes.
4–45	1943	Coast Artillery Ammunition—Part II—Primers, Igniters, Boosters and Fuzes—Section I—Primers and Igniters. *The function of primers and igniters*	Notes.
4–46	1943	The 37-mm Automatic Gun M1A2. On Carriage M3A1. *Nomenclature and function of the more important parts*	No notes.
4–47	1943	Coast Artillery Ammunition—Part II—Primers, Igniters, Fuzes, and Boosters—Section II—Fuzes and Boosters. *The action of point-detonating fuzes, combination fuzes and base-detonating fuzes; the purpose and action of boosters and adapters*	Notes.
4–48	1943	Coast Artillery Ammunition—Part III—Projectiles. *Development of projectiles. Types used by the coast artillery*	Do.
4–49	1943	Coast Artillery Ammunition—Part IV—Marking, Packing, Storing. *Explains the marking on projectiles; defines the powder tag; illustrates how to unpack the component parts of ammunition, and demonstrates the more important storage regulations*	Do.
4–50	1943	Barrage Balloon—The Modified A–9 and A–11 Winches. *Operation, maintenance, and nomenclature*	No notes.
4–51	1943	Barrage Balloon Fabric Repair. *Nomenclature and methods employed*	Do.
4–52	1943	The M5 Power Plant—Nomenclature and Maintenance	Do.
4–53	1943	Railway Artillery—Part I—Track Construction—Section I. *Factors to be considered in choosing sites and laying track; types of roads to be considered for the construction of railroad sidings, etc*	Do.
4–54	1943	Antiaircraft Artillery Automatic Weapons—The 40-mm Automatic Gun M1. *Nomenclature and function of the more important parts*	Do.
4–55	1943	Fire Control and Position Finding for Antiaircraft Artillery—Part V—The M4 and M7 Directors. *Nomenclature; differences between the M4 and M7. Includes a section to be used with an oral review or quiz by the instructor, and a 15-question true-false test*	Do.
4–56	1943	The M5 Power Plant—Trouble Shooting—Section I. *Troubles in the fuel system and in the ignition system of the M5 power plant. Can be used as an aid in teaching trouble shooting on any gasoline engine*	Do.

FS No.	Year released	Subject	Remarks
4–57	1943	The M5 Power Plant—Trouble Shooting—Section II. *Troubles in the cooling system and the lubrication system; what to do in the event of hard starting. Can be used as an aid in teaching trouble shooting on any gasoline engine*	No notes.
4–58	1943	Fire Control and Position Finding for Antiaircraft Artillery—Part XV—Trial Fire. *Introduction and general presentation of the trial fire problem. Includes a 15-question true-false test*	Do.
4–59	1943	Barrage Balloon—The M1 Winch. *Nomenclature and operation*	Do.
4–60	1943	Fire Control and Position Finding for Antiaircraft Artillery—Part IV—Directors M5 and M6, Theory. *Theory of the angular travel method of prediction; theory of operation of the directors. Includes a 15-question true-false test*	Do.
4–61	1943	Barrage Balloon—The Hydrogen Generator M1. *Capacity of the generator; chemicals used; how hydrogen is made; function of generator parts and the generating process; diagrams showing flow. Quiz*	Do.
4–62	1943	Barrage Balloon—The Cradle Bed—Part I—Bed Anchorages. *Nomenclature of anchorages, dimensions, and procedure in laying out the cradle bed*	Do.
4–63	1943	Fire Control and Position Finding, Seacoast Artillery—Part II—Azimuth Instruments. *Azimuth instrument M1910A1. Shows procedure for setting up and operating the M1919A1. Quiz*	Do.
4–64	1943	Fire Control and Position Finding, Seacoast Artillery—Part III—The Horizontal Base System. *Elements of horizontal base system; explanation of base-end stations and plotting board; operation of system in obtaining track of target*	Do.
4–65	1943	Fire Control and Position Finding, Seacoast Artillery—Part IV—The Theory of the Vertical Base System. *How range is obtained from measurement of the depression angle by a depression position finder. Effect of, and correction for tide, curvature, and refraction*	Do.
4–66	1943	Fire Control and Position Finding, Seacoast Artillery—Part V—Orientation, Range Adjustment, and Operation of the Depression Position Finder M1907	Do.
4–67	1943	Direct Fire Sights for Antiaircraft Guns—Part I—Theory of Leads. *Why a lead must be used in firing at a moving target, basic elements of antimechanized fire. Quiz*	Do.
4–68	1943	Barrage Balloon—The British Skid Mounted Mark IV Winch. *Nomenclature and operation. Track of cable through the winch illustrated by drawings*	Do.

FS No.	Year released	Subject	Remarks
4–69	1943	Fire Control and Position Finding, Seacoast Artillery—Part VI—Orientation, Range Adjustment, and Operation of the Depression Position Finder, M1	No notes.
4–70	1943	Fire Control and Position Finding, Seacoast Artillery—Part VII—How the Coincidence Range Finder Works.	
		Optical elements illustrated by diagrams. Theory of C.R.F. range measurement summarized	Do.
4–71	1943	Fire Control and Position Finding, Seacoast Artillery—Part VIII—The Nine-Foot Coincidence Range Finder.	
		Description; orientation; halving adjustment; adjustment by the datum point and infinity methods	Do.
4–72	1943	Fire Control and Position Finding, Seacoast Artillery—Part IX—The Fifteen-Foot Coincidence Range Finder—Adjustment.	
		General description; halving adjustment; range adjustment by datum point, internal adjuster, and infinity methods	Do.
4–73	1943	Fire Control and Position Finding, Seacoast Artillery—Part X—The Fifteen-Foot Coincidence Range Finder—Operation.	
		Continuous and discontinuous methods of range finding	Do.
4–74	1943	Fire Control and Position Finding, Seacoast Artillery—Part XI—The 110° Plotting Board M1915—Description and Operation.	
		Description of the board; explanation of use of different quadrants; orientation for a specific quadrant; operation of the board	Do.
4–75	1943	Fire Control and Position Finding, Seacoast Artillery—Part XII—The Cloke and M1 Plotting Boards—Section I—Description.	
		Nomenclature, use, and function of the various parts	Do.
4–76	1943	Fire Control and Position Finding, Seacoast Artillery—Part XIII—The Cloke and M1 Plotting Boards—Orientation I.	
		Orienting the boards by means of the length and azimuth of the base line	Do.
4–77	1943	Fire Control and Position Finding, Seacoast Artillery—Part XIV—The Cloke and M1 Plotting Boards—Orientation II.	
		The datum point and equilateral triangle methods of orientation	Do.
4–78	1943	Fire Control and Position Finding, Seacoast Artillery—Part XV—The Cloke and M1 Plotting Boards—Operation.	
		Operation using the horizontal, the vertical, and self-contained base systems	Do.
4–79	1943	Fire Control and Position Finding, Seacoast Artillery—Part XVI—Theory of Prediction.	
		Elements of prediction: analyzing and relating course and speed of target, dead time, and time of flight	Do.

FS No.	Year released	Subject	Remarks
4–80	1943	Fire Control and Position Finding, Seacoast Artillery—Part XVII—Prediction Devices. *Employment of the prediction scale, the set-forward rule, and set-forward scales*	No notes.
4–81	1943	Fire Control and Position Finding, Seacoast Artillery—Part XVIII—Nonstandard Ballistic Conditions. *Graphical demonstration of the effect of each of the nonstandard ballistic conditions. Range and lateral effects are shown separately. Reference*	Do.
4–82	1943	Fire Control and Position Finding, Seacoast Artillery—Part XIX—The Meteorological Message. *Message and how to decode it for use in artillery firing. Reference*	Do.
4–83	1943	Fire Control and Position Finding, Seacoast Artillery—Part XX—Firing Tables. *Contents of firing tables and their use in determining corrected azimuth and range*	Do.
4–84	1943	Fire Control and Position Finding, Seacoast Artillery—Part XXI—Displacement Correction Devices. *The need for and use of an azimuth difference chart, a range difference chart, and an elevation difference chart*	Do.
4–85	1943	Fire Control and Position Finding, Seacoast Artillery—Part XXII—The Range Correction Board M1A1—Description and Operation. *Title is self-explanatory. Reference.*	
4–86	1943	Fire Control and Position Finding, Seacoast Artillery—Part XXIII—The Percentage Corrector M1. *Operating procedure. Reference*	No notes.
4–87	1943	Fire Control and Position Finding, Seacoast Artillery—Part XXIV—Wind Component Indicator. *Operation for batteries oriented from south; for batteries oriented from north*	Do.
4–88	1943	Fire Control and Position Finding, Seacoast Artillery—Part XXV—The Deflection Board M1—Description. *Use of the component parts*	Do.
4–89	1943	Fire Control and Position Finding, Seacoast Artillery—Part XXVI—The Deflection Board M1—Operation for Case III Pointing	Do.
4–90	1943	Fire Control and Position Finding, Seacoast Artillery—Part XXVII—The Deflection Board M1—Operation for Case II Pointing. *Title is self-explanatory*	Do.
4–91	1944	Fire Control and Position Finding, Seacoast Artillery—Part XXVIII—Spotting Systems. *Describes axial, bilateral, and three-station systems and methods used in determining the effect of fire*	Do.
4–92	1944	Fire Control and Position Finding, Seacoast Artillery—Part XXIX—Spotting Boards M3 and M7. *Function and operation. Reference.*	

FS No.	Year released	Subject	Remarks
4-93	1944	Fire Control and Position Finding, Seacoast Artillery—Part XXX—Fire Adjustment, General Information. *General principles of fire adjustment, including accidental and systematic errors, dispersion, and probability*----	No notes.
4-94	1944	Fire Control and Position Finding for Seacoast Artillery—Part XXXI—Fire Adjustment by the Bracketing Method. *Title is self-explanatory.*	
4-95	1944	Fire Control and Position Finding, Seacoast Artillery—Part XXXII—Fire Adjustment by the Magnitude Method. *Adjustment by this method with the use of the fire adjustment board M1.*	
4-96	1944	Fire Control and Position Finding, Seacoast Artillery—Part XXXIII—Lateral Fire Adjustment. *Describes lateral fire adjustment for seacoast artillery.*	
4-97	1943	Fire Control and Position Finding, Seacoast Artillery—Part XXXIV—The Flow of Data. *Traces the flow of data from observation stations through the elements of the plotting room to the guns.*	
4-109	1943	Barrage Balloon—The Cradle Bed—Part II—Site Rigging. *Deals with site rigging that does not fly with the balloon*---	No notes.
4-110	1943	Direct Fire Sights for Antiaircraft Guns—Part II—Description and Nomenclature. *The elbow telescopes M24, M25, and M26, and the telescope mounts M26, M27, M28, and M29 used on 90-mm and 3-inch antiaircraft guns. Adjustment and maintenance of the telescope and mount. Quiz*------	Do.
4-111	1943	Radio Set SCR-296A—Part I—Nomenclature and Function of Component Parts. *Describes the major components and gives an elementary discussion of their functions*----------	Do.
4-112	1943	Barrage Balloon—Methods of Mooring and Flying—Part II—Operation in Adverse Weather. *Operation and precautions required when encountering high winds, lightning, heavy rain, intense heat, or severe winter weather*----------	Do.
4-113	1944	Direct Fire Sights for Antiaircraft Guns—Part III—Aiming and Orientation. *Method of aiming 3-inch and 90-mm guns using the elbow telescopes M24, M25, and M26. Alignment of the sight with the gun. Quiz*----------	Do.
4-114	1943	Radio Set SCR-582—Part I—Nomenclature and Function of Component Parts. *Function of the visible units in the control cabinet, transmitter cabinet, and antenna unit*----------	Do.
4-116	1943	Radio Set SCR-582—Part II—Placing the Set in Operation. *Turning on the set and tuning it. Quiz*----------	Do.

FS No.	Year released	Subject	Remarks
4–117	1943	Fire Control and Position Finding for Antiaircraft Artillery—Part X—Remote Control System M5. *Functioning of the M5 director in computing and transmitting firing data to the 37-mm and 40-mm antiaircraft guns. Elements of electrically controlled hydraulic power system illustrated in detail. Quiz*	No notes.
4–118	1943	Barrage Balloon—Methods of Mooring and Flying—Part I—Normal Operations. *Normal methods for mooring and flying the low altitude barrage balloon.*	
4–119	1943	Radio Set SCR–296A—Part II—Operation. *General operating procedure, including turning the set on, determination of azimuth and range, coordination of azimuth and range operators, and turning the set off*	Do.
4–120	1943	Radio Set SCR–296A—Part III—Operational Checks. *Routine checks to be made each time set is turned on and periodically during operation*	Do.
4–121	1943	Radio Set SCR–582—Part III—Operation. *Operation after the set has been turned on and tuned; procedure for turning it off*	Do.
4–122	1943	Barrage Balloon—Methods of Mooring and Flying—Part III—Use of the Winch. *Title is self-explanatory*	Do.
4–123	1943	Barrage Balloon—Methods of Mooring and Flying—Part IV—Special Operations. *Operations at water-borne sites and procedure of transferring balloon from bed to boat, to barge, thence to point of attachment. Employment of VLA balloons to protect ships, amphibious operations, and large landing craft*	Do.
4–124	1943	The Theory of Radar. *Basic principles of radar; use of reflected radio waves to determine azimuth and range*	Do.
4–125	1943	Radio Set SCR–582—Part IV—Operational Checks. *Operator's procedure in making periodic checks of the instrument. Log book entries are illustrated*	Do.
4–126	1943	The Directors M9 and M10—Part I—Introduction. *Includes the basic flow of data and possible combinations of the M9 with various height finders or radar used for observations. Quiz*	Do.
4–127	1943	Fire Control and Position Finding—Part VI—M4 and M7 Directors, Internal Mechanisms. *Description and operation of the basic mechanisms in the director. Quiz*	Do.
4–128	1943	Fire Control and Position Finding—Part IX—Remote Control for Antiaircraft Artillery, System M2. *Nomenclature, description, and operation. Quiz*	Do.
4–133	1943	The Gun Data Computer M1—Part V—Operation Using the Vertical Base and Radar Systems of Position Finding. *Duties of the computer personnel during operation*	Do.

FS No.	Year released	Subject	Remarks
4–134	1943	The Gun Data Computer M1—Part III—Operating Features and Precautions.	
		Definitions and explanation of the symbols and controls; precautions to be taken.	
4–135	1943	The Gun Data Computer M1—Part II—General Operating Principles.	
		General description, including an explanation of the A and C (observing) triangles and the B (gun) triangle used to determine present position of the target.	
4–136	1943	Direct Fire Control for Automatic Weapons—Part II—Theory of Leads.	
		Explains leads as a solution to the problem of hitting a moving target. Quiz	No notes.
4–137	1943	The Directors M9 and M10—Part II—Nomenclature.	
		Nomenclature of the four units of the directors	Do.
4–138	1943	Direct Fire Control for Automatic Weapons—Part I—Theory of Leads.	
		Basic reasons why a lead must be used in firing at a moving target. Elements of data necessary to an understanding of on-carriage sighting system. Quiz	Do.
4–139	1943	The Gun Data Computer M1—Part IV—Position Finding Using the Horizontal Base System.	
		Duties of operating personnel in finding the present position of the target	Do.
4–140	1943	Direct Fire Control for Automatic Weapons—Part III—Tracer Observation.	
		Behavior of tracers and a method of interpreting them in terms of deviations about the target	Do.
4–141	1943	Antiaircraft Artillery Guns and Accessories—Part III—90-mm AA Gun on M2 Mount.	
		Nomenclature and general description of the bogies and pedestal	Do.
4–142	1943	Direct Fire Control for Automatic Weapons—Part IV—Forward Area Sights for 40-mm AA Guns.	
		Description, nomenclature, adjustments, care and preservation, and orientation	Do.
4–143	1943	The Directors M9 and M10—Part III—Adjustments.	
		Checks and adjustments to be made on the directors before running tests	Do.
4–144	1943	Antiaircraft Artillery Guns and Accessories—Part V—The 90-mm AA Gun on the M2 Mount—Gun Assembly.	
		Nomenclature and general description	Do.
4–145	1943	The Gun Data Computer M1—Part VI—Operation for Prediction and Fire Control.	
		Duties of operating personnel in determining the firing azimuth and elevation for the two-gun battery	Do.
4–146	1943	The Gun Data Computer M1—Part VII—The Output Data Transmission System.	
		Description of the system, illustrating how to lay the guns and check the data receivers for synchronization	Do.

FS No.	Year released	Subject	Remarks
4–147	1944	Barrage Balloon Lethal Devices—Part II—Bomb and Parachute Arming for VLA Balloons. *Nomenclature and functioning of the flying wire assembly, inertia links, bombs, and parachutes.*	
4–148	1943	The Gun Data Computer M1—Part I—Base End Data Transmission System. *Operating the components at the observation station and at the computer*	No notes.
4–149	1943	Antiaircraft Artillery Ammunition—Part I—General Handling and Cal. .50 Ammunition. *Precautions to be observed in handling all ammunition; detailed description of all cal. .50 ammunition*	Do.
4–150	1943	Direct Fire Control for Automatic Weapons—Part V—Forward Area Sights for 40-mm AA Guns—Aiming at Aerial Targets. *Aiming at aerial targets with the FAS for 40-mm antiair-aircraft guns, taking up proper use of both sights and adjustment of fire*	Do.
4–151	1943	Antiaircraft Artillery Multiple Gun Mounts—Part I—The Twin Cal. .50 Machine Gun Mount M33—General Description	Do.
4–152	1943	Antiaircraft Artillery Multiple Gun Mounts—Part II—The Twin Cal. .50 Machine Gun Mount M33—Assembly and Operation. *Installing the base, mount, shield, guns, solenoids, batteries, power charger, and sight of the mount in the M3 or M5 half-track vehicle; checks and adjustments*	Do.
4–153	1943	Antiaircraft Artillery Multiple Gun Mounts—Part III—The Multiple Cal. .50 Machine Gun Mount M45—General Description. *Title is self-explanatory*	Do.
4–154	1944	Antiaircraft Artillery Multiple Gun Mounts—Part IV—The Multiple Cal. .50 Machine Gun Mount M45—Assembly and Operation. *Detailed assembly and operation of the mount; check of equipment and orientation*	Do.
4–155	1943	Antiaircraft Artillery Multiple Gun Mounts—Part V—The Combination AA Gun Mount M42, Introduction. *Description, nomenclature and operation*	Do.
4–157	1943	Harbor Defense Searchlights and Power Plants—Part V—Fixed Searchlights—Section I—Nomenclature and Function	Do.
4–158	1943	Harbor Defense Searchlights and Power Plants—Part V—Fixed Seacoast Searchlights—Section II—Care and Maintenance. *Care and maintenance; routine checks and lubrication.*	
4–159	1943	Antiaircraft Artillery Fire Control and Position Finding—Part VIIc—Prediction, M4 and M7 Directors—Section II—Diving and Climbing Targets. *Operation and functions of the prediction mechanism,*	

FS No.	Year released	Subject	Remarks
		including altitude prediction for diving and climbing targets.	
4–160	1943	Antiaircraft Artillery Guns and Accessories—Part IV—The 90-mm AA Gun on the M2 Mount—Leveling Mechanism.	
		Nomenclature and general description of the leveling mechanism, top carriage, and cradle	No notes.
4–162	1943	Harbor Defense Searchlights and Power Plants—Part III—Mobile Power Plants, Sperry—Operation and Maintenance.	
		Lubrication, preventive maintenance, and operation.	
4–163	1944	Harbor Defense Searchlights and Power Plants—Part IV—The 25-kw Power Plant—Care and Operation.	
		Routine lubrication and checks before, during, and after operation	No notes.
4–164	1943	Antiaircraft Artillery Fire Control and Position Finding—Part VIIa—M4 and M7 Directors, the Position Finding System.	
		General description of the manning details; operations during action using the height finder or radar; and position finding	Do.
4–166	1943	Radio Optical Height Finder SCR–547—Part II—General Description and Nomenclature.	
		Nomenclature and functioning of the operating parts	Do.
4–167	1943	Radio Optical Height Finder SCR–547—Part I—General Description and Nomenclature.	
		Theory of the SCR–547 and nomenclature of the trailer	Do.
4–168	1943	Harbor Defense Searchlights and Power Plants—Part V—Fixed Seacoast Searchlights—Section III—Operation.	
		Manual operation and the operation of the distant electric control; procedures for carboning the light, striking the arc, and focusing the beam	Do.
4–169	1943	The Medium Tractor M4—Part II—Preventive Maintenance.	
		Routine checks and use of the lubricating and inspection work sheets	Do.
4–170	1944	Orientation for Seacoast Artillery—Maps—Part II—Map Projections.	
		Primary requirements of good military maps as well as several types of projections	Do.
4–171	1944	Antiaircraft Artillery Fire Control and Position Finding—Part VIIb—Prediction, M4 and M7 Directors—Section I.	
		How the directors predict the future position of the target in the horizontal plane.	
4–172	1944	Communications for Coast Artillery—Part I—The Use of the Telephone.	
		Importance of telephone; use; proper methods of sending and receiving messages, letters, and numbers.	

FS No.	Year released	Subject	Remarks
4–173	1943	Antiaircraft Artillery Fire Control and Position Finding —Part VIId—Computation of Firing Data and Corrections, M4 and M7 Directors. *Computation of data and corrections added to adjust for nonstandard conditions*	No notes.
4–174	1943	Orientation for Seacoast Artillery—Part IV—Maps—Types and Features. *Covers different types of maps and the meaning of conventional signs and symbols.*	
4–175	1944	Barrage Balloon Lethal Devices—Part III—Double Parachute Arming for VLA Balloons. *Nomenclature and functioning of flying cable assemblies, inertia links, double parachute cable cutter and parachutes used with the double-parachute arming scheme.*	
4–176	1943	Radio Optical Height Finder SCR–547—Part IV—Indicator Presentation. *Adjustments necessary to form the correct "full sweep" and "precision sweep" pictures on the scope so that the unit will accurately measure slant range.*	
4–177	1944	Orientation for Seacoast Artillery—Part IX—The Transit Traverse—Field Notes. *Method of recording field notes.*	
4–178	1944	Direct Fire Control for Automatic Weapons—Part VII—M6 Sighting System. *Nomenclature, orientation, and employment of the system against air, ground, and naval targets*	No notes.
4–179	1943	Direct Fire Control for Automatic Weapons—Part VI —Forward Area Sights for 40-mm AA Guns—Ground and Naval Targets	Do.
4–180	1944	Antiaircraft Artillery Guns and Accessories—Part VII —The 120-mm (4.7-inch) AA Gun on the M1 Mount —Leveling Mechanism and Top Carriage. *Nomenclature and general description.*	
4–181	1944	The Medium Tractor M4—Part I—Operation. *Starting, driving, and stopping the tractor; operating the winch.*	
4–182	1944	Communications for Coast Artillery—Part II—Laying Field Wire. *Equipment and procedure for mobile units*	No notes.
4–183	1944	Communications for Coast Artillery—Part III—The Standard Field Wire Splice for Splicing W–110–B Wire.	
4–184	1944	Communications for Coast Artillery—Part IV—The Local Battery Telephone. *Installation, operation, and care of field telephones in mobile coast artillery.*	
4–185	1944	Communications for Coast Artillery—Part V—The Installation and Operation of Field Switchboards. *Installation, testing, and operation of the field switchboard BD–71. Reference.*	

FS No.	Year released	Subject	Remarks
4–186	1944	Communications for Coast Artillery—Part VI—The BD–95 Switchboard. *Description and operation. Reference.*	
4–187	1944	Communications for Coast Artillery—Part VII—The Fixed Harbor Defense Communication System	No notes.
4–188	1944	Communications for Coast Artillery—Part VIII—The Common Battery Telephone. *Function and operation.*	
4–189	1944	Communications for Coast Artillery—Part IX—The Time Interval Apparatus and Signal Systems. *Function and operation.*	
4–190	1944	Barrage Balloon—Winches for VLA Balloons—Part I—M1 Winch. *Nomenclature, functioning, and operation.*	
4–191	1944	Orientation for Seacoast Artillery—Part I—The Seacoast Artillery Orientation Problem. *Positions that must be selected and oriented whenever a seacoast battery is installed.*	
4–192	1944	Orientation for Seacoast Artillery—Part V—Instruments—The Use of the Transit. *Description and operation in determining horizontal and vertical angles.*	
4–193	1944	Orientation for Seacoast Artillery—Part VIII—The Transit Traverse—Running the Traverse. *Title is self-explanatory.*	
4–194	1944	Radio Optical Height Finder SCR–547—Part III—Placing in Operation. *Adjustments made in putting the SCR–547 "on the air."*	
4–195	1944	Orientation for Seacoast Artillery—Part VII—The Transit Traverse—Organization and Duties of the Party.	
4–196	1944	Antiaircraft Artillery Guns and Accessories—Part VI—The 120-mm (4.7-inch) AA Gun on the M1 Mount—Bogies and Pedestal. *Nomenclature and general description.*	
4–197	1944	Orientation for Seacoast Artillery—Part VI—Instruments—Auxiliaries. *Auxiliary instruments used by the surveying party.*	
4–198	1944	Barrage Balloon—Winches for VLA Balloons—Part II—Mk. VII Winch and the Payout Reel. *Nomenclature, functioning, and operation.*	
4–199	1944	Radio Optical Height Finder SCR–547—Part V—Orientation and Synchronization. *Orientation and synchronization that must be done before targets may be tracked.*	
4–200	1944	Field Fortifications for Antiaircraft Artillery—Part I—Basic Principles	No notes.
4–201	1944	Field Fortifications for Antiaircraft Artillery—Part II—Automatic Weapons. *Fortifications for the 40-mm gun, M5 power plant, M5 director, and cal. .50 machine gun on the M2A1 and M3 mounts.*	

FS No.	Year released	Subject	Remarks
4–202	1944	Field Fortifications for Antiaircraft Artillery—Part III —Guns. *Fortifications for the 90-mm gun on the M1A1 and M2 mounts, M7 director, M7 power plant, SCR–545, SCR–547, SCR–584 height finder, and cal. .50 machine gun on the M2A1 and M3 mounts*	No notes.
4–203	1944	Antiaircraft Artillery Ammunition—Part II—37-mm and 40-mm Ammunition. *Describes ammunition in detail, including the action of the M23A2 primer and the MK27 fuze*	Do.
4–204	1944	Antiaircraft Artillery Ammunition—Part III—Ammunition for AA Guns. *Describes in detail 90-mm and 120-mm (4.7-inch) ammunition. Includes the action of the M28A2 primer, and a description of the M43 and M48 series fuzes and the M20A1 booster*	Do.
4–205	1944	Railway Artillery—Part V—Hand and Air Brakes—Section II—Adjustment and Maintenance.	
4–206	1944	Antiaircraft Artillery Guns and Accessories—Part VIII —The 120-mm (4.7-inch) AA Gun on the M1 Mount —Cradle and Gun Assembly. *Nomenclature and general description.*	
4–207	1944	Radio Optical Height Finder SCR–547—Part VI—Tracking Targets. *How the SCR–547 gets on tracks and measures the slant range to targets.*	
4–208	1944	Railway Artillery—Part I—Track Construction—Section II. *Method of laying track for railway artillery units.*	
4–210	1944	Railway Artillery—Part III—The 8-inch Gun Mk. VI M3A2 on Railway Mount M1A1—Section I—Carriage, Barrel, Recoil, and Counterrecoil Systems	No notes.
4–211	1944	Railway Artillery—Part III—The 8-inch Gun Mark VI M3A2 on Railway Mount M1A1—Section II—Breech Mechanism, Firing Mechanism and Ammunition Supply System.	
4–212	1944	Railway Artillery—Part IV—Railway Cars. *Construction and uses of railway artillery cars.*	
4–213	1944	Railway Artillery—Part V—Hand and Air Brakes—Section I—Function and Operation.	
4–214	1944	Railway Artillery—Part III—The 8-inch Gun Mk VI M3A2 on Railway Mount M1A1—Section III—Emplacement and Preparation for Movement	No notes.
4–215	1944	Railway Artillery—Part VI—Diesel-Electric Locomotives. *Description*	Do.
4–216	1944	Railway Artillery—Part VII—Train Operation. *Main rules which govern the movement of railway artillery.*	

FS No.	Year released	Subject	Remarks
4–217	1944	Direct Fire Control for Automatic Weapons—Part XI —Speed Ring Sights, Cal. .50 Machine Gun. *Description, orientation, and aiming at aerial, ground, and naval targets*	No notes.
4–218	1944	Recognition of Aircraft—Part I—Elementary Characteristics of Aircraft. *Salient features of fuselage, wing, and tail-assembly construction which aid in recognition*	Do.
4–219	1944	Recognition of Aircraft—Part II—Elementary Characteristics of Aircraft. *Motors, control surfaces, and landing gear.*	
4–220	1944	Recognition of Aircraft—Part III—Test. *Antiaircraft views of various airplanes, United States and foreign.*	
4–221	1944	Recognition of Aircraft—Part IV—Test. *Continuation of FS4–220.*	
4–222	1944	The Radio Set SCR–584—Part I—Exterior, General Description and Nomenclature.	
4–223	1944	Direct Fire Control for Automatic Weapons—Part XII—Mark 9 Reflector Sight. *Description, nomenclature, adjustment and use against aerial targets.*	
4–224	1944	Orientation for Seacost Artillery—Part III—Maps—Military Grid Systems *Explains grid systems and their use.*	
4–225	1944	The Radio Set SCR–584—Part II—Description and Nomenclature, Interior.	
4–226	1944	The Radio Set SCR–584—Part III—Prepare for Action and Close Station.	
4–230	1944	The Radio Set SCR–545—Part I—General Description and Nomenclature, Exterior	No notes
4–231	1944	The Radio Set SCR–545—Part II—General Description and Nomenclature, Interior	Do
4–232	1944	The Radio Set SCR–545—Part III—Prepare for Action Close Station	Do.
4–236	1944	Antiaircraft Searchlight Equipment—Part VII—The Spread Beam Modifiction. *Description, optical principles and general use.*	
4–237	1944	The 6-inch Gun M1903A2 and M1905A2 on Barbette Carriage M1 or M2—Part I—The Barrel, Breech and Firing Mechanisms.	
4–238	1944	The 6-inch Gun M1903A2 and M1905A2 on Barbette Carriage M1 or M2—Part II—The Carriage and Traversing Mechanism	No notes.
4–239	1944	The 6-inch Gun M1903A2 and M1905A2 on Barbette Carriage M1 or M2—Part III—The Recoil and Counterrecoil Systems. *Function and operation*	Do.
4–240	1944	The 6-inch Gun M1903A2 and M1905A2 on Barbette Carriage M1 or M2—Part IV—The Elevating	

FS No.	Year released	Subject	Remarks
		Mechanism—Section I—The Elevating Mechanism for the 6-inch Gun on Barbette Carriage M1.	
		Function and operation	No notes.
4-241	1944	The 6-inch Gun M1903A2 and M1905A2 on Barbette Carriage M1 or M2—Part IV—The Elevating Mechanism—Section II—The Elevating Mechanism for the 6-inch Gun on Barbette Carriage M2	
		Function and operation	Do.
4-242	1944	The 6-inch Gun M1903A2 and M1905A2 on Barbette Carriage M1 or M2—Part V—The Sighting Equipment.	
		Adjustment and operation	Do.
4-243	1944	Antiaircraft Artillery Fire Control and Position Finding—Part XVI—Calibration.	
		Preparations for calibration fire; how the calibration corrections are computed and set into the guns	Do.
4-244	1944	The 16-inch Gun Mk. II M1 on Barbette Carriage M4—Part I—The Barrel and Breech Assemblies.	
		Construction and operation.	
4-245	1944	The 16-inch Gun Mk. II M1 on Barbette Carriage M4—Part II—The Recoil and Counterrecoil System.	
		Functioning and maintenance.	
4-246	1944	The 16-inch Gun Mk. II M1 on Barbette Carriage M4—Part III—The Carriage, Construction	No notes.
4-247	1944	The 16-inch Gun Mk. II M1 on Barbette Carriage M4—Part IV—The Elevating Mechanism.	
		Function and operation when the piece is elevated by hand or power.	
4-248	1944	The 16-inch Gun, Mk. II M1 on Barbette Carriage M4—Part V—The Traversing Mechanism.	
		Describes the various methods of traversing.	
4-249	1944	The 16-inch Gun Mk. II M1 on Barbette Carriage M4—Part VI—The Loading and Ammunition Supply Systems.	
4-250	1944	Antiaircraft Artillery Fire Control and Position Finding—Part XII—Orientation of the Gun Battery in Azimuth.	
		Orientation by backsighting, an infinite point, or a point of known azimuth and range	No notes.
4-251	1944	Antiaircraft Artillery Fire Control and Position Finding—Part XI—Parallax Corrections.	
		How corrections are computed to compensate for the "N-S," "E-W," and vertical displacement of the tracking unit from the directing point of the battery. How to correct for the vertical displacement between the radar (or height finder) and the director	Do.
4-252	1944	Antiaircraft Artillery Fire Control and Position Finding—Part XX—The Directors M4A1B1, M7A1B1, M4A1B2 and M7A1B2.	
		The two rate smoothing modifications, description and nomenclature, and how to operate them.	

FS No.	Year released	Subject	Remarks
4–253	1944	Direct Fire Control for Automatic Weapons—Part VIII—Computing Sight M7 and M7A1—Nomenclature and Orientation. *Nomenclature, general description, orientation and care and maintenance*	No notes.
4–254	1944	Antiaircraft Artillery Guns and Accessories—Part IX—The 120-mm (4.7-inch) AA Gun on the M1 Mount—Fuze Setter and Power Rammer. *Nomenclature and general description.*	
4–255	1944	Direct Fire Sights for Antiaircraft Guns—Part IV—Firing and Adjustment. *Service of the piece for the 3-inch and 90-mm guns when using direct fire sights; fire adjustment using the elbow telescopes M24, M25, and M26*	No notes.
4–256	1944	Direct Fire Sights for Antiaircraft Guns—Part V—Sighting System M7. *General description and nomenclature; care and preservation.*	
4–257	1944	Antiaircraft Artillery Fire Control and Position Finding—Part XIII—Ballistic Corrections for the M4 and M7 Directors. *Effect of nonstandard conditions on a projectile; how corrections are computed for the nonstandard conditions, where the corrections are set on the director.*	
4–258	1944	Antiaircraft Artillery Fire Control and Position Finding—Part XVII—M7 Director, Checks and Tests. *Checks made on the level vials and telescopes; correcting an error in alignment of the elevation telescope; conducting static problem checks*	No notes.
4–259	1944	Direct Fire Control for Automatic Weapons—Part X—Speed Ring Sights, 40-mm Guns—Description and Nomenclature. *Use of the speed ring issued to replace forward area sights and the one used as emergency sighting system with the computing sight M7.*	
4–260	1944	Direct Fire Sights for Antiaircraft Guns—Part VI—The Sighting System M7, Adjustment and Collimation.	
4–261	1944	Antiaircraft Artillery Fire Control and Position Finding—Part XVIII—The M3 Oil Gear. *Description, installation, and use with 40-mm antiaircraft gun.*	
4–262	1944	Fire Control and Position Finding—Part XIV—Ballistic Corrections, M9 and M10 Directors. *Title is self-explanatory.*	
4–263	1944	Direct Fire Control for Automatic Weapons—Part XIII—Speed Ring Sights for 40-mm Guns—Ground and Naval Targets. *Description and use.*	
4–264	1944	The SCR–682–A—Part I—Nomenclature and Function of the Component Parts. *Title is self-explanatory.*	

FS No.	Year released	Subject	Remarks
4–265	1944	The SCR–682–A—Part II—Installation. *Describes the procedure for unloading and installing the set.*	
4–266	1944	The SCR–682–A—Part III—Erection of the Tower TR–42–A. *Title is self-explanatory.*	
4–267	1944	The SCR–682–A—Part IV—Readying the Radar Equipment. *Title is self-explanatory.*	
4–268	1944	The SCR–682–A—Part V—Operation of the Radar Equipment. *Describes the operation of the radio set SCR–682–A.*	
4–269	1944	The SCR–682–A—Part VI—The Power Unit PE–183–A. *Nomenclature and operation.*	
4–270	1944	The SCR–682–A—Part VII—Preparation for Movement. *Describes the preparation for movement of the radio set SCR–682–A.*	
5–14	1943	How to Fire a Furnace. *Operation of the hand-fired, bituminous coal furnace; method of starting and maintaining the fire and cleaning the furnace. Duties of the soldier in charge*----------	No notes.
5–15	1943	Mines—Part II—Hasty Mine Fields. *Employment of a one-squad group for daylight operation in favorable terrain; a two-squad group for night operation in unfavorable terrain*----------	Do.
5–16	1943	Fixed Bridges—Part III—Strengthening and Expedients. *Strengthening and repairing existing bridges sufficiently to carry military loads*----------	Do.
5–17	1943	The Motorized Air Compressor. *Principles of two-stage air compression; starting and stopping the compressor; attachment and principles of pneumatic tool operation, and general uses of the pneumatic tools which are a part of the motorized air compressor*----------	Do.
5–18	1944	Rigging—Part III—Practical Installations. *Rigging and erection of anchorages and installations for handling heavy loads: holdfasts, shears, tripod, gin pole and boom derrick.*	
5–19	1943	The Portable Steel Highway Bridge, Light Type. *Erection and removal; main features of the bridge are also pointed out.*	
5–20	----	Rigging—Part II—Knots. *How to tie the following knots, bends, and hitches: overhand, figure-8, square, bowline, running bowline, bowline on a bight double bowline, sheepshank, half hitches, clove hitch, cats paw becket hitch, timber hitch, sheet bend, and fisherman's knot.*	

FS No.	Year released	Subject	Remarks
5–21	1944	Wire Entanglements—Part I—Materials and Methods of Handling. *Materials used in barbed wire obstacles and how to make "eye" ties, apron tie, and post ties.*	
5–22	1943	Rigging—Part I—Rope and Lashings. *Construction and care of rope, and methods used in making three commonly used lashings*	No notes.
5–23	1943	Mines—Part III—Antipersonnel Mines. *Standard antipersonnel mines and firing devices; methods of installations; antipersonnel mines M2 and M3 complete with combination firing device*	Do.
5–24	1943	Mines—Part I—Antitank Mines. *Antitank mine, stressing the precautions necessary in handling; steps required in assembling and installing complete mines; details of burial and importance of salvaging unused mines*	Do.
5–25	1944	Deliberate Mine Fields—Mines—Part IV. *Method for establishing; surveying and laying of field; placing, arming, and burying mines; activating selected antitank mines, and installing antipersonnel mines, equipment used and camouflage discipline*	Do.
5–26	1943	Mines—Part V—Antitank Mine Road Blocks. *Use of the antitank mine road block, the antitank mine road block pattern and method for laying and the antitank mine string.*	
5–27	1943	Mines—Part VI—Booby Traps. *Installation and employment. Comparison between booby traps and antipersonnel mines; nomenclature; precautions and locations for traps.*	
5–28	1944	Disarming and Removing Enemy Mines—General Information. *Correct procedure for disarming, defusing, and removing German Teller mines and antipersonnel mines.*	
5–29	1943	M1938 Footbridge. *Use and construction procedure; reinforced footbridge equipage. Operations of each section of the working party*	No notes.
5–30	1943	The Engineer Combat Company. *Duties and responsibilities of technicians and specialists in an engineer combat battalion. Organization of the company and special duties of squads and platoons; weapons, equipment and tools*	Do.
5–31	1943	Assault Boats. *Loading, unloading, and maintenance of M2 assault boats*	Do.
5–32	1943	The 10-ton Ponton Bridge. *Principal parts of the bridge and method of transportation. Details of construction of the deep-water trestle; hinge span raft; floating span and reinforcement for the bridge.*	Do.
5–33	1943	Fixed Bridges—Part I—The Timber Trestle Bridge. *Procedure of selecting a site; constructing the substructure*	

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		(footing, abutments, supports and special supports for unusual conditions) and the superstructure (stringers, flooring, and curbing)	No notes.
5-34	1944	The 25-ton Ponton Bridge. *Details of construction of the 25-ton ponton bridge.*	
5-35	1943	Wire Entanglements—Part II—The Double Apron Fence. *Construction procedures and recommended organization of working parties*	Do.
5-36	1943	Wire Entanglements—Part III—Portable Wire Obstacles. *Construction and erection of the barbed wire concertina, knife rest, and spirals of loose wire*	Do.
5-37	1943	Antimechanized Obstacles. *Employment of antitank obstacles, natural and artificial; bridge demolition, antitank mine fields, antitank ditches, craters, cribs, log posts, and hurdles*	Do.
5-38	1943	Passage of Antimechanized Obstacles. *Effect of natural obstacles; construction and employment of artificial obstacles*	Do.
5-39	1943	Camouflage—Part I—Erection and Construction of Drapes and Flat-Tops. *Draping a tank and erecting a small flat top*	Do.
5-40	1943	Interpretation of Aerial Photographs—Part I—Basic Identification. *Identification of terrain features on aerial photographs: natural features, such as hills, forests and streams; and man-made features, such as roads, bridges, and buildings*	Do.
5-41	1943	Interpretation of Aerial Photographs—Part II—Military Interpretation. *How, by study of aerial photographs, military information is obtained about location of troops and installations; strength size, and nature of units; and movements.*	
5-42	1944	Care and Servicing of Wire Rope. *Methods of caring for and servicing.*	
5-43	1944	Use of Wire Rope.	
5-44	1944	Truck-mounted Crane. *Truck-mounted or "quickway" crane, its attachments, and how used.*	
5-45	1944	Demolition of Bridges and Roads. *Use of explosives.*	
5-46	1944	Portable Water Purification Equipment. *Operation and functioning.*	
5-47	1944	Mobile Water Purification Equipment. *Equipment and its operation*	No notes.
5-48	1944	Site Selection and Lay-out for Field Airdrome. *Necessary reconnaissance needed in determining a site for a field airdrome; how the airdrome is laid out and the type of installations that are constructed.*	

FS No.	Year released	Subject	Remarks
5–49	1944	The Engineer Tractor Crane (M20–Le Tourneau). *Description, operation, and use.*	
5–50	1944	The Carry-all Scraper. *Shows the operation of the Carry-all; it also shows the preventive maintenance and lubrication required for this equipment*	No notes.
5–52	1944	Engineer Combat Battalion. *Organization, equipment, and capacities.*	
5–53	1944	Road Construction and Maintenance. *Necessary steps and maintenance required to keep military roads in operation*	No notes.
5–54	1944	Bridge Reconnaissance.	
5–55	1944	Road Reconnaissance. *Procedure of conducting; equipment and organization of the reconnaissance party.*	
5–57	1944	Fixed Steel Panel Bridge—Bailey Type. *Gives the nomenclature and explains the composition of the various types of Bailey bridges and their capacities. Shows the construction of a DS Bailey bridge, explaining the use of the launching nose on various types of terrain, spacing of rollers and placement of cribbing*	No notes.
5–59	1944	Steel Treadway Bridge M2—Part I—Floating Bridge. *Nomenclature and description of the three main parts of the bridge, floats, saddles, and steel treadways, together with accessories*	Do.
5–60	1944	Steel Treadway Bridge M2—Part II—Rafting. *Describes the equipment used in the construction of fixed spans of the steel treadway bridge which is illustrated by the construction of a fixed bridge over a dry gap. Following is a step-by-step construction of the four-ponton steel treadway raft plus the method of loading and ferrying a medium tank.*	
6–6	1940	Field Artillery Firing—Part III—Conduct of Fire. *Air observation and liaison methods*	No notes.
6–7	1940	Field Artillery—Elementary Gunnery. *Interior and exterior ballistics, dispersion, effect of projectiles and elementary firing*	Notes.
6–10	1943	Field Fortifications for Field Artillery—Part I—Hasty Fortifications	No notes.
6–11	1943	Field Fortifications for Field Artillery—Part II—Deliberate Fortifications	Do.
6–12	1943	Field Fortifications for Field Artillery—Part III—Protection Against Mechanized Forces	Do.
6–13	1943	First Echelon Maintenance, GMC 2½-ton 6x6 Truck—Part I—Inspection Before Operation. *Reference*	Do.
6–14	1943	First Echelon Maintenance, GMC 2½-ton 6x6 Truck—Part II—Inspection During Operation	Do.
6–15	1943	First Echelon Maintenance, GMC 2½-ton 6x6 Truck—Part III—Inspection After Operation. *Reference*	Do.

FS No.	Year released	Subject	Remarks
6-16	1943	First Echelon Maintenance, GMC 2½-ton 6x6 Truck—Part IV—Scheduled Weekly Preventive Maintenance, Emergency Roadside Repairs	No notes.
6-17	1943	Subcaliber Equipment for Field Artillery Weapons. *Data pertaining to the 37-mm Gun M1916 (Subcaliber), the 155-mm howitzers M1917A4 and M1918A3, and the 75-mm howitzer M1 (Pack) and M3A1 (Field)*	Do.
6-18	1943	Field Artillery Weapons. *Types of early artillery and bombards; United States field artillery weapons, including howitzers*	Do.
6-19	1943	The Graphical Firing Table. *Function, construction, and identification of slides; indicator; stock; plotting scale; all tables and data provided by the instrument*	Do.
6-20	1943	Field Artillery Ammunition—Part I—Marking and Packing, Transportation. *Purpose and methods of marking ammunition; painting projectile rounds; use of bands; marking and base marking of fixed and semifixed ammunition fiber containers and ammunition data tag. Packing procedure and precautions in transportation*	Do.
6-21	1943	Field Artillery Ammunition—Part II—Storage. *Field storage for protection from enemy fire by dispersion, cover, and concealment; safeguarding against moisture, temperature, dirt, dents, and burs. Precautions and admonitions*	Do.
6-22	1943	Field Artillery Ammunition—Part III—Handling. *Precautions and admonitions for carrying and unpacking; assembling the rounds; methods to be observed in examination, disposal, and installation of fuzes; steps to be taken in case of misfire*	Do.
6-23	1943	Field Artillery Ammunition—Part IV—Projectiles and Propellants. *Exterior sections of a modern projectile; function of ogive, bourrelet, rotating band, boat tail, base cover, high explosive charge, fuze and booster; types of chemical shells; nature of the explosion process; igniting and propelling charges of 105-mm and 155-mm guns*	Notes.
6-24	1943	Field Artillery Ammunition—Part V—Fuzes. *Function, use, component parts, and detonation of super quick, delay and time fuzes. Detailed diagrams show the fundamentals of fuze construction and operation*	No notes.
6-25	1943	Field Artillery Ammunition—Part VI—Boosters. *Functions, types and characteristics. Operation procedure. Types of fuzes used*	Do.
6-26	1943	Preparation of Field Artillery Matériel for Railway Transport—Part I—Plans, Cars, Loads, Ramps, and Materials. *Reference*	Do.
6-27	1943	Preparation of Field Artillery Matériel for Railway Transport—Part II—Loading and Securing Vehicles	Do.

FS No.	Year released	Subject	Remarks
6-28	1943	Preparation of Field Artillery Matériel for Railway Transport—Part III—Loading and Securing Weapons. *Reference.*	
6-29	1943	Radio Set SCR-284-A—Part I—Description and Installation. *Details of the medium-power, high-frequency receiver and transmitter for vehicular or field operation; covers frequency range, types of emission, transmitter power range and complete installation procedure. Content of packs for three-man portage of equipment for field use. Reference*	No notes.
6-30	1943	Radio Set SCR-284-A—Part II—Operation. *Essential initial adjustments of receiver; use of the transmitter, tuning calibrator and antenna; adjustment of the transmitter frequency to that of the net control station; calibration of transmitter*	Do.
6-31	1943	The 105-mm Howitzer M2—Part I—Description and Characteristics	Do.
6-32	1943	The 105-mm Howitzer M2—Part II—Mechanical Functioning. *Nomenclature and detailed explanation of the operation of all mechanical functioning parts*	Do.
6-33	1943	The Transit—Part I—Description, Set-up and Leveling	Do.
6-34	1943	The Transit—Part II—Verniers. *Definition of verniers. Rules and procedure for correct reading of scales. Problems in reading scales, including solutions*	Do.
6-35	1943	The 105-mm Howitzer M2—Part IV—Care, Cleaning, and Lubrication	Do.
6-36	1943	Sighting and Laying Equipment—Tests and Adjustments—155-mm Howitzers M1917A4 and M1918A3. *Tests and adjustments of the gunner's quadrant, panoramic telescope and quadrant sight prior to firing*	Do.
6-37	1943	The 75-mm Howitzers M1 and M8—Part IV—Disassembly and Loading on Pack Animals for Transport	Do.
6-39	1943	The 105-mm Howitzer M2—Part III—Authorized Disassemblies (First Echelon). *Disassembly of breechblock; removal of tube; removal and adjustment of wheels and hand brakes*	Do.
6-40	1943	Sighting and Laying Equipment—Tests and Adjustments—75-mm Howitzers M1 and M8. *Testing gunner's quadrant; testing and adjusting the telescope mount M3 and panoramic telescope M1. Reference*	Do.
6-41	1943	Sighting and Laying Equipment—Tests and Adjustments—105-mm Howitzer M2. *Tests and adjustments of the gunner's quadrant, panoramic telescope and mount, elbow telescope and mount, and range quadrant prior to firing*	Do.

FS No.	Year released	Subject	Remarks
6–42	1944	Direct Laying with the 105-mm Howitzer. *The two-sight system and the one-sight system; duties of the crew*	No notes.
6–43	1943	Laying the Field Artillery Battery. *Operations involved in laying the battery parallel by y-azimuth (compass), by base angle, and by aiming point and deflection*	Do.
6–44	1943	The 75-mm Howitzers M1 and M8—Part III—Care, Cleaning, and Lubrication. *Disassembly of the breech and firing mechanisms; routine maintenance operations; filling the recoil system; lubrication*	Do.
6–45	1943	Sensing of Field Artillery Fire. *Lists and demonstrates possibilities in sensing of field artillery fire. Presents sensing problems, answers to be furnished by the student*	Do.
6–46	1943	The 75-mm Howitzers M1 and M8—Part I—Description and Characteristics. *Integral parts and characteristics of the weapon*	Do.
6–47	1943	The 75-mm Howitzers M1 and M8—Part II—Mechanical Functioning. *Operation of breech and firing mechanisms, recoil system, traversing mechanism and elevating mechanism*	Do.
6–48	1943	Sighting and Laying Equipment—Tests and Adjustments—4.5-inch Gun M1 and 155-mm Howitzer M1. *Tests and adjustments of the gunner's quadrant, the panoramic telescope and the telescope mount prior to firing*	Do.
6–49	1944	Field Artillery Conduct of Fire—Axial Precision. *Methods and examples of conducting fire from an axial observation post.*	
6–50	1944	Sighting and Laying Equipment—Tests and Adjustments—155-mm Gun M1 and 8-inch Howitzer M1. *Tests and adjustments of the gunner's quadrant, panoramic telescope and mount and quadrant mount prior to firing.*	
6–51	1944	Field Artillery Conduct of Fire—Axial Bracket. *Methods and examples of conducting bracket fire from an axial observation post.*	
6–52	1944	Field Artillery Conduct of Fire—Lateral Precision, Small-T Methods. *Methods and examples of conducting precision fire from a lateral observation post using small-T methods.*	
6–53	1944	Field Artillery Conduct of Fire—Lateral Precision, Large-T Methods. *Methods and examples of conducting precision fire from a lateral observation post using large-T methods.*	
6–54	1944	Field Artillery Conduct of Fire—Lateral Bracket, Small-T Methods. *Methods and examples of conducting bracket fire from a lateral observation post using small-T methods. Reference.*	

FS No.	Year released	Subject	Remarks
6–55	1944	The 155-mm Howitzers M1917A4 and M1918A3—Part I—Description and Characteristics. *Includes detailed treatment of the parts of the howitzers and carriage assemblies.*	
6–56	1944	The 155-mm Howitzers M1917A4 and M1918A3—Part II—Mechanical Functioning. *Operation of the breech and firing mechanisms, safety devices, elevating and traversing mechanisms and brake system*----------	No notes.
6–57	1944	The 155-mm Howitzers M1917A4 and M1918A3—Part III—Authorized Disassemblies (First Echelon). *Disassembly and assembly of the breech mechanism, percussion hammer operating shaft and firing mechanism block*----------	Do.
6–58	1944	The 155-mm Howitzers M1917A4 and M1918A3—Part IV—Care, Cleaning and Lubrication. *Preventive maintenance performed by the howitzer squad. Inspection, care, cleaning, preservation and lubrication of the howitzer in general; specific maintenance operations performed before, during, and after firing.*	
6–59	1944	Switchboards BD–71 and BD–72—Part I—Description, Testing, Installation, and Simplex Circuits. *Nomenclature, location, and function of component parts; tests for proper functioning of the switchboard units, generator, cord, plugs and circuits; means of installation, concealment and connections of the switchboards into wire circuits, and simplexing telephone and telegraph through the switchboards. Reference*----------	No notes.
6–60	1944	Switchboards BD–71 and BD–72—Part II—Operation, Field Expedients and Maintenance. *Reference*----------	Do.
6–61	1944	Panoramic Sketching. *Principles involved in making simple, readable and complete panoramic sketches for use in the field; procedure to be followed in producing the sketch. Reference*----------	Do.
6–62	1944	Field Artillery Conduct of Fire—Lateral Bracket, Large-T Methods. *Methods and examples of conducting bracket fire from a lateral observation post using large-T methods*----------	Do.
6–63	1944	The 8-inch Howitzer M1 and the 155-mm Gun M1—Part I—Description and Characteristics. *Detailed treatment of the parts of the howitzer or gun and carriage assemblies.*	
6–64	1944	Field Artillery Conduct of Fire—Time Fire Bracket. *Methods and examples of conducting field artillery fire using time shell.*	
6–65	1944	8-inch Howitzer M1 and 155-mm Gun M1—Part II—Mechanical Functioning. *Explains the operation of the firing and breech mechanisms, safety devices, counterbalances, recoil mechanism, equilibrators, elevating and traversing mechanisms, bogie, and brake system.*	

FS No.	Year released	Subject	Remarks
6-66	1944	8-inch Howitzer M1 and 155-mm Gun M1—Part III—Authorized Disassemblies (First Echelon). *Disassembly and assembly of the breech mechanism and firing mechanism M1.*	
6-67	1944	8-inch Howitzer M1 and 155-mm Gun M1—Part IV—Care, Cleaning, and Lubrication. *Preventive maintenance performed by the howitzer squad. Inspection, care, cleaning, preservation, and lubrication of the weapon in general, and specific maintenance before, during, and after firing.*	
6-68	1944	Field Artillery Conduct of Fire—Forward Observation Methods. *Principles and methods of adjustment of artillery fire by forward observers. Includes type problems with percussion, ricochet, and time fire.*	
6-69	1944	Field Artillery Conduct of Fire—Base Ejection Smoke. *Characteristics and technique of use of base ejection smoke shell.*	
6-70	1944	The 155-mm Howitzer M1A1 and 4.5-inch Gun M1A1—Part I—Description and Characteristics. *Description, characteristics, and nomenclature of the howitzer or gun and the carriage.*	
6-72	1944	The 155-mm Howitzer M1A1 and 4.5-inch Gun M1A1—Part III—Authorized Disassemblies (First Echelon). *Disassembly and assembly of the breech mechanism and firing mechanism.*	
7-1	1941	U. S. Rifle, Cal. .30, M1—Part I—Mechanical Training: Care and Cleaning, Functioning. *Characteristics of the rifle; disassembling into groups; ammunition; care and cleaning, and function of the piece. Note to instructor: The use of graphite cup grease No. 3 and reference to the compensating spring in the sequence on lubrication before firing are incorrect. The manner of loading is also in error*----	No notes.
7-2	1940	U. S. Rifle, Cal. .30, M1—Part II—Mechanical Training: Stoppages and Immediate Action, Service of the Piece. *Shows by charts the causes and corrections of malfunctions, and by captioned pictures the steps of immediate action, loading and unloading, and safety precautions. Note to instructor: The sequence on immediate action shows the operating rod pulled to the rear incorrectly and omits prescribed action when the bolt locks but the rifle again fails to fire. The manner of loading is also in error*----------	Do.
7-5	1940	U. S. Rifle, Cal. .30, M1903—Part I—Description, Disassembling, Assembling, Care and Cleaning. *Note to instructor: In the sequences on cleaning in garrison and after firing, light preservation lubricating oil should be used in lieu of medium rust preventive com-*	

FS No.	Year released	Subject	Remarks
		pound. When the present supply of light preservative lubricating oil is exhausted special preservative lubricating oil will be used----------	No notes.
7-6	1940	U. S. Rifle, Cal. .30, M1903—Part II—Functioning, Individual Safety Precautions. *Loading magazine and chamber, extraction of empty case, unloading, use of cut-off, safety lock, cocking piece, safety precautions*----------	Do.
7-10	1940	Infantry Signals—Part II—Signals for Crew-Served Weapons. *Hand and arm signals, such as "action," "elevate," and "off carts," applicable to crew-served weapons of the infantry. Note to instructor: The signal for "search" is not included*----------	Do.
7-11	1940	The 60-mm Mortar M2—Part I—Organization, Description, Disassembling, Assembling, Care and Cleaning. *Characteristics, employment, principal parts, and care of the mortar. Note to instructor: This film strip does not include the use of rifle bore cleaner, light preservative lubricating oil and agent, decontaminating, noncorrosive. When the present supply of light preservative lubricating oil is exhausted special preservative lubricating oil will be used*----------	Do.
7-12	1941	The 60-mm Mortar M2—Part II—Sighting Equipment, Instruments, Ammunition, Safety Precautions, and Misfires. *Aiming stakes, details of the M4 sight; field glass, type EE, lensatic compass, modified prismatic type; ammunition types, shell markings, shell container, ballistic data, the propelling charge, cotter ring and pin; safety precautions and misfires, including method of removing shell. Note to instructor: The binocular, type EE, and the modified prismatic compass shown are incorrect. Illuminating shell M83 is not shown. In the sequence on misfire, the important precaution against lowering the base of the mortar below the horizontal position until the round has been removed is omitted*----------	Do.
7-14	1941	Manual of the Saber. *How and when each movement is executed: draw, carry, present, order, parade rest, port saber, use of the saber knot, and return saber*----------	Do.
7-16	1941	The Automatic Pistol, Cal. .45 M1911, M1911A1—Part I—Mechanical Training: Description, Nomenclature, Ammunition. *Mechanism, principal parts, and the construction, packing and ballistics of the ball cartridge. Note to instructor: The figure "6" in the legend indicating the number of grooves should be one line lower. The correct weight of the cartridge, ball, cal. .45 M1911 is 322 grains*----------	Do.

FS No.	Year released	Subject	Remarks
7–17	1941	The Automatic Pistol, Cal. .45 M1911, M1911A1—Part II—Mechanical Training (Continued): Disassembling, Assembling, Care and Cleaning. *Disassembly sufficient for ordinary field cleaning; complete disassembly and assembly of the piece and magazine; care and cleaning in garrison, after firing and in combat. Note to instructor: The reference to the use of sperm oil in care and cleaning and the use of water and soda in decontamination are incorrect*	No notes.
7–18	1942	Pitching and Striking the Pyramidal Tent. *Method and various steps of pitching and striking are shown in considerable detail. Locally made tent frames are illustrated. The sibley stove is shown properly installed in the tent. A diagram containing tent nomenclature is included*	Do.
7–19	1942	Pitching and Striking the Wall Tent. *Pitching, striking, and folding the tent with its fly; diagram of the tent with its nomenclature indicated*	Do.
7–22	1942	Pitching and Striking the Latrine Screen	Do.
7–23	1941	Manual of the Guidon. *Design, display and manual of the guidon; order, carry, facings, rests, present, salute, double time, and position of guidon bearer in formation*	Do.
7–25	1941	The 81-mm Mortar M1—Part II—Mechanical Training: Sighting Equipment, Spare Parts, Accessories, Fire Control Instruments. *M4 sight in detail, nomenclature, operation, mounting, use in laying in elevation and deflection, dismounting, sight case, care and cleaning. Use of firing and deflection tables; laying mortar without sight; spare parts and accessories. Fire-control instruments, nomenclature and use of compass, field glass; wire communication equipment of mortar squad.*	
7–28	1942	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1—Part I—First Step, Sighting and Aiming Exercises. *Equipment to be used, method of instruction and instructional material; use of the sighting bar and rifle rest*	No notes.
7–29	1942	Identification of Foreign Mechanized Vehicles—Part II—Identification of Italian Armored Cars and Tanks. *Emphasizes shape and size, suspension systems and special equipment*	Do.
7–30	1942	Identification of Foreign Mechanized Vehicles—Part III—Identification of Japanese Armored Cars and Tanks. *Emphasizes shape and size, suspension systems and special equipment*	Do.
7–33	1942	The Browning Automatic Rifle, Cal. .30 M1918 and M1918A1—Part I—Mechanical Training: General Description, Disassembling and Assembling. *Disassembly authorized to be performed by individual soldier without supervision, including disassembly of*	

FS No.	Year released	Subject	Remarks
		operating group and trigger mechanism; assembly in reverse order indicated but not illustrated. Checks for correct assembly of trigger mechanism	No notes.
7-38	1941	U. S. Rifle, Cal. .30, M1903—Part III—Marksmanship, 1st, 2d, and 3d Exercises. *Method of instruction, executing exercises with sighting bar, aligning on target, making triangles. Correct and incorrect sight pictures. Necessity of careful, faithful practice*	Do.
7-39	1942	Rifle Marksmanship, Range Practice, U. S. Rifle, Cal. 30, M1—Part I—Safety Precautions. *Precautions necessary for conduct of firing on the range*	Do.
7-40	1942	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1—Part II—Second Step, Position Exercises. *Correct method of assuming positions; use of sling and sand bag. Note to instructor: The "hasty sling" adjustment is incorrectly presented and the "squatting position" is omitted.*	
7-45	1941	The Browning Machine Gun, Cal. .30, M1917—Part I—Mechanical Training: General Characteristics, Description. *Direct, indirect, overhead fire; use in attack, in defense, against airplanes; blank firing attachments. Nomenclature, tripods, cooling system. Organization of heavy weapons company. Note to instructor: The organization of a heavy weapons company as shown is incorrect.*	
7-46	1941	The Browning Machine Gun, Cal. .30, M1917—Part II—Disassembling, Assembling, by Groups. *Note to instructor: This film strip does not include a complete definition of "head space."* (*See note, page 7, FM 23-55.*)	
7-47	1941	The Browning Machine Gun, Cal. .30, M1917—Part III—Detailed Disassembling, Bolt, Lock Frame, Barrel Extension, Cover	No notes.
7-48	1941	The Browning Machine Gun, Cal. .30, M1917—Part IV—Disassembling Parts Dismounted only for Repair, Packing the Barrel, Methods of Changing Parts	Do.
7-49	1941	The Browning Machine Gun, Cal. .30, M1917—Part V—Care and Cleaning. *Procedure for keeping gun in good working condition. General care and cleaning; care before and after gas attack; points to be observed before, during and after firing*	Do.
7-50	1942	The Browning Machine Gun, Cal. .30, M1917—Part VI—Mechanical Functioning: Loading, Unloading, Clearing Gun, Trigger Action, Backward Movement of Parts. *Title is self-explanatory*	Do.
7-51	1942	The Browning Machine Gun, Cal. .30, M1917—Part VII—Mechanical Functioning (Continued): Forward Movement of Parts, Automatic Fire	Do.

FS No.	Year released	Subject	Remarks
7–53A	1942	The Browning Machine Gun, Cal. .30, M1917—Part IX—Section I—Training for Placing the Gun in Action, Gun Drill. *Securing equipment; forming crew; changing numbers and duties; examining gun equipment; putting gun into action; clearing gun; taking gun out of action*_____	No notes.
7–56	1941	The Browning Machine Gun, Cal. .30, M1917—Part XII—Technique of Fire, Direct Laying—Characteristics of Fire, Classes of Fire, Range Determination and Windage. *Note to instructor: The trajectory and beaten zone charts shown are not in agreement with the ballistics of M2 ammunition. (Corrections will be found in FM 23–55.)*	
7–58	1941	The Browning Machine Gun, Cal. .30, M1917—Part XIV—Technique of Fire, Direct Laying—Overhead Fire. *Note to instructor: Troop safety firing data and troop safety zones included are incorrect for M2 ball ammunition. The leader's rule does not apply to the M2 sight and the components of minimum clearance is incompletely presented.*	
7–60	1941	The Browning Machine Gun, Cal. .30 HB, M1919A4 (Ground)—Part I—Mechanical Training: Description, Disassembling, Assembling by Groups. *Note to instructor: The definition of "head space" is incomplete. (See note, page 7, FM 23–55.)*	
7–61	1941	The Browning Machine Gun, Cal. .30 HB, M1919A4 (Ground)—Part II—Mechanical Training (Continued): Detailed Disassembling, Disassembling only for Repair, Changing Parts_____	No notes.
7–63	1942	The Browning Machine Gun, Cal. .30, M1917—Part VIII—Section I—Stoppages and Immediate Action_	Do.
7–64	1942	The Browning Machine Gun, Cal. .30, M1917—Part VIII—Section II—Tripod Mountings, Accessories, Fire Control Instruments, Ammunition_____	Do.
7–65	1942	The Browning Machine Gun, Cal. .30, M1917—Part XI—Section I—Machine Gun Marksmanship, Sighting and Aiming Exercises. *Equipment for instruction within each squad; use of sighting bar; correct alignment of sights on a target*_____	Do.
7–68	1941	The 37-mm Antitank Gun M3—Part I—Characteristics and Description. *General characteristics, data and nomenclature; moving gun by carrier and by hand; ease in manipulating and firing gun; types of ammunition used; targets engaged; organization of antitank company and squad*_____	Do.
7–69	1942	The Browning Machine Gun, Cal. .50, HB (Flexible) M2 (Ground)—Part I—Mechanical Training: Description, Characteristics. *Principal parts, characteristics, uses, methods of fire. Types of ammunition used; accessories. Note to in-*	

FS No.	Year released	Subject	Remarks
		structor: This film strip incorrectly advocates the use of this gun as an antimechanized weapon and omits reference to its employment in antiaircraft fire from vehicular mounts.	
7–70	1942	The Browning Machine Gun, Cal. .50, HB (Flexible) M2 (Ground)—Part II—Mechanical Training (Continued): Assembling and Disassembling by Groups, Head Space Adjustment	No notes.
7–71	1942	The Browning Machine Gun, Cal. .50, HB (Flexible) M2 (Ground)—Part III—Care and Cleaning, Spare Parts, Accessories and Ammunition	Do.
7–72	1942	The 37-mm Antitank Gun, M3—Part II—Disassembling and Assembling	Do.
7–73	1942	The 37-mm Antitank Gun, M3—Part IV—Care and Cleaning. *Duties of the squad: preventive maintenance; care before, during, and after fire; filling the recoil cylinder; protection against chemicals; decontamination after gas attack*	Do.
7–74	1942	The Browning Automatic Rifle, Cal. .30, M1918A2—Part I—Mechanical Training: Description, Disassembly, and Assembly	Do.
7–75	1942	Visual Aids to Training. *Complete discussion and demonstration of illustrated problems which can be solved and simplified by the following visual aids: blackboards, charts, models, sand tables, miniature ranges, training films, film strips and opaque projection*	Do.
7–76	1942	The 37-mm Antitank Gun, M3—Part III—Mechanical Functioning. *Opening breech; extraction; cocking; closing breech; firing gun, and action of recoil mechanism; safety features of firing mechanism*	Do.
7–77	1942	U. S. Carbine, Cal. .30, M1—Part I—Characteristics and Description. *Weight, length, accurate firing range, gas-operated magazine, methods of carrying, correct firing position*	Do.
7–79	1942	Airlanded Troops and C–47 Airplanes. *Proper method of marking and packing equipment; correct storage of rifles; parachutes; change from paratroop regalia to combat equipment on landing*	Do.
7–80	1942	37-mm Antitank Gun in C–47 Airplanes. *Loading, lashing, and unloading the gun, using the two-ramp treadways*	Do.
7–81	1942	75-mm Pack Howitzer in C–47 Airplanes. *Loading, lashing, and unloading the howitzer*	Do.
7–82	1942	The One-ton Trailer in C–47 Airplanes. *Loading, lashing and unloading the one-ton trailer, less bows and top*	Do.
7–83	1942	The ¼-ton Truck in C–47 Airplanes. *Routine minor changes which have to be accomplished before loading the ¼-ton truck; lashing and unloading.*	Do.

FS No.	Year released	Subject	Remarks
7-84	1943	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1—Part III—3d Step, Trigger Squeeze Exercises.	
		Rules for practice and execution of trigger squeeze exercises from all positions; instructions for coach	No notes.
7-85	1942	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1—Part V—5th Step Effect of Wind, Sight Changes, Use of the Score Book.	
		Note to instructor: An obsolete M1903 scorebook is shown and "clicks" are referred to as "quarter points."	
7-86	1942	The Browning Machine Gun, Cal. .30, M1917—Part IX—Section II—Training for Placing the Gun in Action, Gun Drill (Concluded).	
		Putting the gun into action for antiaircraft fire; moving the gun; manipulation of the gun; zeroing the dial; measuring horizontal angles; putting out base and aiming stakes; measuring vertical angles and quadrant elevation	Do.
7-87	1942	The Browning Machine Gun, Cal. .30, M1917—Part X—Training for Placing the Gun in Action, Battery Drill.	
		Designating the battery position; securing equipment for going into battery; putting the gun into battery; emplacing the gun; laying on the initial aiming point; laying off base angles of shift; laying the guns for elevation; ammunition; battery exercises	Do.
7-89	1943	Use of the Message Book.	
		Description and use of the M-210 message book; writing a message when no book is available	Do.
7-90	1943	Rifle Marksmanship, Range Practice, U. S. Rifle, Cal. .30, M1—Part II—Duties of the Coach.	
		Duties during range firing; the double-coaching system of instruction	Do.
7-92	1943	The CG-4A Glider—Part I—General Description.	
		Description of the interior of the glider; capacity; cargo and emergency doors; method of loading heavy cargo; special features	Do.
7-93	1943	The CG-4A Glider—Part II—Supplies and Light Cargo.	
		Tying down and lashing small cargo items; .30 cal. machine gun; 81-mm mortar; basic principles for lashing ammunition; solo motorcycle; .50 cal. antiaircraft gun; use of tightening devices and lash loads of supplies	Do.
7-96	1943	U. S. Carbine, Cal. .30, M1—Part II—Disassembly and Assembly.	
		As authorized for the individual soldier without supervision	Do.
7-99	1943	The 60-mm Mortar M2—Part V—The Training of the Observer.	
		Preparation of initial firing data, estimating ranges, sensing, and firing for adjustment. Special combat expedients, the use of firing tables and the giving of accurate fire orders	Do.

FS No.	Year released	Subject	Remarks
7-100	1943	The 37-mm Antitank Gun, M3—Part V—Immediate Action and Stoppages. *Types of stoppages, causes and proper remedial action. Note to instructor: The sequence on misfire contains an erroneous statement relative to a 2-minute time interval before opening the breech and ejecting the round*------	No notes.
7-102	1943	Pioneer Equipment for Infantry—General Description and Use. *Pioneer equipment available to infantry. Note to instructor: The engineer squad pioneer equipment set and the engineer squad carpenter set shown are incomplete. The infantry demolition kits are obsolete*------	Do.
7-103	1943	The 37-mm Antitank Gun, M3—Part VI—Preparatory Marksmanship Training. *Pictures, charts, and diagrams illustrating the operations involved in antitank marksmanship. Use of the telescope, including the application of the range and lead markings of the telescope reticle to the target; applying the correct point of aim to a moving target*----------	Do.
7-104	1943	Identification of Foreign Mechanized Vehicles—Part V—Identification of British Armored Cars and Tanks. *Depicts several features common to all British mechanized vehicles and emphasizes such features as turret, armament, silhouette, suspension, and hull*----------	Do.
7-106	1943	The Browning Automatic Rifle, Cal. .30, M1918A2—Part II—Mechanical Training (Continued): Operation. *Loading, setting the change lever, firing, and adjusting for gas*----------	Do.
7-107	1943	Hand Grenades—Part III—Grenade-Projection Adapter M1 with the M1903 and M1917 Rifles. *Describes the adapter with the fragmentation grenade Mk. 11; includes the assembling, loading and firing, positions, technique of fire, and a range table*----------	Do.
7-108	1943	Hand Grenades—Part II—Throwing Technique and Safety Precautions. *Throwing from prone, kneeling, and standing positions; the technique of throwing frangible grenades; throwing grenades in woods, jungles and built-up areas; safety precautions to be observed when handling live grenades. Reference.*	
7-109	1944	Air Ground Visual Communication—Part I—Marking of Vehicles as a Means of Identification (Color). *Dimensions, physical properties, and uses of the fluorescent panels A1-140 and A1-141.*	
7-110	1943	Hand Grenades—Part I—Types and Characteristics. *Description and use of fragmentation, chemical, and frangible grenades. Also use of practice and training grenades. Note to instructor: Reference to grenade, practice Mk. 1, is incorrect and the following grenades*	

FS No.	Year released	Subject	Remarks
		are omitted: CN–M7, red smoke M3, colored smoke M18, and fragmentation. The M10A3 fuze for the Mk. II grenade is also omitted. Reference.	
7–111	1943	U. S. Carbine, Cal. .30, M1—Part III—Marksmanship, Known-Distance Targets. *Assumes that the soldier has had marksmanship training with the M1 rifle. Shows the correct sight picture, positions, sight settings and changes, zeroing the L-type sight, types of targets and hold-on method of aiming*	No notes.
7–112	1943	Technique of Fire of the Rifle Squad—Part I—Range Estimation and Target Designation. *Actions of individuals in the squad in estimating ranges and designating targets. Reference*	Do.
7–113	1943	The CG–4A Glider—Part III—The ¼-ton Truck. *Procedure for loading, securing, and unloading the ¼-ton truck. Stresses safety precautions*	Do.
7–114	1943	The Ammunition and Pioneer Platoon—Part I—Ammunition Supply. *Operation of the battalion ammunition service; methods of delivering ammunition to using troops; identification, care and handling of the various types. Note to instructor: The term "supply point" should be used instead of "distributing point." (See par. 162, FM 100–10)*	Do.
7–115	1943	The Browning Automatic Rifle, Cal. .30, M1918A2—Part III—Care and Cleaning. *Care and cleaning of the rifle when not in use, during firing, after firing and under unusual conditions. Protective and corrective measures taken during gas attack*	Do.
7–116	1943	The CG–4A Glider—Part IV—The ¼-ton Trailer. *Preparation, loading and placement of the ¼-ton trailer. Landing the cargo glider and towing the trailer*	Do.
7–117	1943	Air-ground Visual Communication—Part I—Marking of Vehicles as a Means of Identification. *Dimensions, physical properties, and uses of the fluorescent panels A1–140 and A1–141. (Black-and-white version of color FS 7–109.)*	Do.
7–118	1943	Technique of Fire of the Rifle Squad—Part II—Rifle and Automatic Rifle Fire and Its Effect. *Trajectories; danger space, shot groups and beaten zone; frontal, oblique, flanking and enfilade fire; effects of fire at various ranges. Reference*	Do.
7–119	1943	The Ammunition and Pioneer Platoon—Part II—Pioneer Duties. *Technical training of personnel in performance of simple engineering tasks; employment of the platoon in pioneer tasks. Note to instructor: Some items of equipment shown are not in agreement with the latest Tables of*	

FS No.	Year released	Subject	Remarks
		Organization and Equipment. "Supply point" should be used instead of "distributing point." (See par. 162, FM 100–10.)	
7–120	1944	The Browning Automatic Rifle, Cal. .30, M1918A2—Part IV—Stoppages and Immediate Action. *Types of stoppages and their causes; detailed procedure of application of the first and second phases of immediate action; treatment of the rifle before, during, and after firing to prevent stoppages. Reference*	No notes.
7–121	1943	Individual Protection, Hasty Field Fortifications—Part I—Intrenchments. *Construction and use of foxholes and prone shelters. Reference*	Do.
7–122	1943	Individual Protection, Hasty Field Fortifications—Part II—Weapon Emplacements. *Construction and use of various types of emplacements for machine guns, mortars, antitank rocket launchers, antitank guns, and the 105-mm howitzer. Reference*	Do.
7–123	1944	Technique of Fire of the Rifle Squad—Part IV—Application of Fire. *Distribution of fire; rate of fire; assault fire; fire discipline; fire control; fire orders; application of fire by the squad in attack and in defense*	Do.
7–124	1943	Impact Fragmentation Rifle Grenade M17. *Loading, firing positions, technique of fire, safety precautions, and range tables. Reference*	Do.
7–125	1943	Technique of Fire of the Rifle Squad—Part III—Use of Hand and Rifle Grenades. *Technique of employment of the following types: grenade with fragmentation effect, antitank rifle grenades, smoke grenades, incendiary grenades, and grenades which release irritant or toxic gases. Reference*	Do.
7–126	1943	The CG–4A Glider—Part V—37-mm Antitank Gun. *Loading and lashing the 37-mm antitank gun and ammunition*	Do.
7–127	1944	Pitching and Striking the Squad Tent M1942. *Description and nomenclature; step-by-step procedure in pitching, striking and folding*	Do.
7–128	1944	Hand Grenades—Part IV—Grenade-projection Adapter M1 with the M1 Rifle and the Carbine. *Adjusting the grenade on the grenade-projection adapter; launcher positions; angles of elevation; range tables; firing positions; loading and firing; safety precautions*	Do.
7–129	1944	The 57-mm Gun, Antitank, M1—Part I—Characteristics and Description. *Characteristics and description of the gun; description of the carriage M1A3; sighting equipment; ammunition. Reference*	Do.
7–130	1944	The 57-mm Gun, Antitank, M1—Part II—Disassembly and Assembly. *Disassembly of firing case; assembly of firing case; dis-*	

FS No.	Year released	Subject	Remarks
		assembly of breechblock; assembly of breechblock. Reference	No notes.
7–131	1944	The 57-mm Gun, Antitank, M1—Part III—Mechanical functioning and operation. *Semiautomatic opening of the breech; opening the breech when shifting cam lever is set on "hand"; closing the breech; firing the piece, functioning of the recoil mechanism*	Do.
7–132	1944	The 57-mm Gun, Antitank, M1—Part IV—Care and Preservation. *Cleaning materials and lubricants; lubrication charts; details of lubricating gun and carriage M1A3; filling the recoil buffer; cleaning after firing; care of the breechblock, outer surfaces of gun and carriage M1A3; care and preservation under garrison conditions and before storage*	Do.
7–133	1944	The 57-mm Gun, Antitank, M1—Part V—Immediate Action and Stoppages. *Steps in immediate action; causes and correction of common stoppages due to failure to fire; failure of breech to close and failure to open*	Do.
7–135	1943	Stream Crossing Expedients—Part I—Improvised Flotation Methods. *Construction of floats, rafts, and outriggers; employment in crossing individuals and their equipment, machine guns, mortars, light trucks, antitank guns and the 105-mm howitzer M3. Reference*	Do.
7–136	1944	Arm and Hand Signals for Motor Transport. *Diagrams of civilian hand signals, electrical and mechanical signals, and standard infantry signals*	Do.
7–137	1944	Communications in the Infantry Battalion. *Means of communication; types, characteristics and distribution of radio equipment; telephone communication; motor and foot messengers and their employment; sound and visual signals*	Do.
7–138	1944	Infantry Weapons and Their Characteristics—Part I—Individual Weapons. *Characteristics and important descriptive features of the following: U. S. rifle, cal. .30, M1, M1903 and M1903A4 (sniper's); bayonet M1 and M1905; Browning automatic rifle, cal. .30, M1918A2; U. S. Carbine M1; automatic pistol M1911A1 and M1911; rifle grenades and hand grenades of various types and models.*	Do.
7–139	1944	Infantry Weapons and Their Characteristics—Part II—Crew-Served Weapons. *Characteristics and important descriptive features of the following: Browning machine gun, cal. .30, M1917A1; Browning machine gun, cal. .30, M1919A4 and M1919A6; Browning machine gun, cal. .50, HB (flexible) M2; 60-mm mortar M2; 81-mm mortar M1; antitank rocket launcher, 2.36-inch M1A1; 57-mm antitank gun M1; 105-mm howitzer M3*	Do.

FS No.	Year released	Subject	Remarks
7-140	1944	Stream Crossing Expedients—Part II—Footbridges and Aerial Cableways. *Construction of a simple floating footbridge, using brush rafts as pontons; rigging an aerial cableway; suspension and crossing of the ¼-ton truck, the 57-mm and 37-mm antitank guns, the 105-mm howitzer M3, and platforms for personnel. Reference*	No notes.
7-141	1944	Infantry Fire as a Defense Against Aircraft—Part I—Rifles and Automatic Rifles. *General instructions; classes of targets; range estimation; rate of fire; effect of fire; leads; positions; sighting and firing*	Do.
7-142	1944	Infantry Fire as a Defense Against Aircraft—Part II—Machine Guns. *Characteristics of machine gun fire as employed against aircraft; types of targets; estimation of slant ranges and application of ranges to tracer stream; adjustment of tracer stream in relation to target; firing positions for cal. .30 light machine guns (M1919A4 and M1919A6), cal. .30 heavy machine gun, and cal. .50 machine gun*	Do.
7-143	1944	105-mm Howitzer M3—Part I- Characteristics and Description. *Characteristics and description of the howitzer; description of the carriage M3A1, ammunition and sighting equipment*	Do.
7-144	1944	105-mm Howitzer M3—Part II—Disassembly and Assembly. *Disassembly and assembly of breech mechanism and firing lock; removal of howitzer and sleigh from cradle; assembling sleigh assembly and tube*	Do.
7-145	1944	105-mm Howitzer M3—Part III—Mechanical Functioning and Operation. *Functioning of the firing lock and operation of parts when the piece is fired; functioning of the recoil mechanism and operation during recoil and counterrecoil; functioning and adjustment of the equilibrators*	Do.
7-146	1944	105-mm Howitzer M3—Part IV—Care, Cleaning and Maintenance. *Cleaning of bore, chamber, and breech mechanism before, during, and after firing; care and lubrication of howitzer and carriage; care and maintenance of recoil mechanism*	Do.
7-147	1944	105-mm Howitzer M3—Part V—Stoppages and Immediate Action	Do.
7-148	1944	Antitank Rocket, 2.36-inch, M6A1 and M7A1, and Launcher M1A1—Part I—Characteristics, Description and Maintenance. *Characteristics of rocket and launcher; nomenclature and description of launcher; functioning of the firing mechanism; description of rockets; inspection, care and cleaning of launcher; characteristics of the launcher M9*	Do.

FS No.	Year released	Subject	Remarks
7-149	1944	Antitank Rocket, 2.36-inch, M6A1 and M7A1, and Launcher M1A1—Part II—Operation, Immediate Action and Safety Precautions. *Loading and firing sequence; immediate action, causes and corrections of common stoppages; safety precautions*---	No notes.
7-150	1944	Air Ground Visual Communication—Part II—Communication with Friendly Airplane by Panel. *Types of panels in the infantry regiment; technique of panel display; numerals, indicators, special signs and use of code messages in the combined panel system.*	
7-151	1944	The 81-mm Mortar M1—Part IV—Placing the Mortar in Action. *Transportation of equipment by motor vehicle and by hand; equipment carried by individual members of crew; duties of each man in placing mortar in action; mounting and firing the mortar*----------	Do.
7-152	1944	The 60-mm Mortar M2—Part III—Placing the Mortar in Action. *Transportation; hand carrying of equipment; mounting the mortar; duties of each member of the squad in placing mortar in action; safety precautions; removing misfires; mounting and firing the mortar without base plate, bipod, or sight*----------	Do.
7-153	1944	Browning Machine Gun Caliber .30, M1917—Part XV—Defiladed Firing Positions. *Characteristics of defiladed positions; selecting the firing position; laying for direction; laying for elevation; check for mask clearance, adjustment of fire*----------	Do.
7-154	1944	The Browning Machine Gun, Cal. .30, M1919A6. *Mechanical features of the M1919A6 gun compared with the M1919A4; distinctive operations in disassembly and assembly; organization and equipment of the light machine gun squad; placing the gun in action; firing positions; moving the gun as a two-man load; taking the gun out of action*----------	Do.
7-155	1944	Browning Machine Gun, Cal. .30, M1917—Part XIII—Technique of Fire, Direct Laying: Elements of the Fire Order. *Target designation, including methods of indicating range, direction, and description of target; fire distribution, including methods of subdividing the target and types of fire distribution; fire control; sequence in fire orders; examples*----------	Do.
7-156	1944	Preparatory Marksmanship Training U. S. Rifle, Cal. .30, M1—Part IV—Sustained Fire. *Timing, steps in assuming positions; duties of the coach; cadence exercise; sustained fire exercises*----------	Do.
8-13	1942	Military Sanitation—Sanitary Inspection Reports, Orders and Surveys, Statistical Methods. *Types, basic, military and environmental features of sanitary surveys; types of reports; statistical methods including charts*----------	Do.

FS No.	Year released	Subject	Remarks
8-24	1941	Shelter Tent Pitching. *Details each step in the erection of the single shelter tent and the double shelter tent*	Notes.
8-26	1942	The Roller Bandages—Barton, Modified Barton, and Parker. *Detailed methods of application*	Do.
8-27	1942	The Roller Bandages—Circular, Modified Gibson, Knotted Recurrent Bandage of Head. *Detailed methods of application*	Do.
8-28	1942	The Roller Bandages—Four-Tailed, First Aid Packet, Figure-of-Eight, Crossed (One Eye), Crossed (Both Eyes). *Detailed methods of application*	Do.
8-30	1942	Triangular Bandages—Face and Jaw Wounds, Triangles, Cravats. *Preparation and application of triangular and cravat bandages; fronto-occipital triangle (head cap), cravat of head or ear, chin-cheeks-scalp cravat, triangular compressed bandage*	Do.
8-31	1942	The Roller Bandages—Face and Jaw Wounds. *Preparation, application, and removal of roller bandage; principles of application of figure-of-eight, spiral-reverse, and spica bandages*	Do.
8-32	1942	Extra-Oral Traction Appliances—Wooden Tongue Depressor Traction Appliance, Metal Coat Hanger Traction Appliance. *Methods of preparation and application*	Do.
8-33	1942	Clearing of Air Passage—Face and Jaw Wounds. *Methods, procedures in clearance and maintenance of air passages*	Do.
8-34	1942	Intra and Extra Oral Splints. *Designing, fabricating, vulcanizing, casting, curing, preparing of various types of oral splints; adjustment and application of vulcanite, silver, and acrylic resin splints*	Do.
8-35	1942	Control of Hemorrhage—Face and Jaw Wounds. *Digital pressure, compress, pack, bandage, ligations. Stabilization and fixation of part, prevention of shock, litter and ambulance evacuation*	Do.
8-36	1942	Care and Treatment of Face and Jaw Wounds. *First aid and therapy for various types of wounds of soft tissues and bony structures; control of hemorrhage, clearance and maintenance of air passages, application of traction. Treatment of shock and inrections, use of antitoxins, toxoids, debridement, surgical measures*	Do.
8-37	1942	Immobilization of Fractures—Intra-Maxillary Wiring, Inter-Maxillary Elastic Traction *Application of wiring and elastic traction for fixation, including single and multiple loop, wire for traction (use of elastics)*	Do.

FS No.	Year released	Subject	Remarks
8-38	1942	General Structure of the Horse and Mule. *Elementary anatomy, bones, muscles, nerves, other systems; certain principles of physiology*----------	No notes.
8-39	1942	Heavy Tent Pitching—Hospital Tentage, Ward Tent. *Each step in formal method of erecting hospital tentage, ward tents*----------	Notes.
8-41	1942	Emergency Measures for Wounds and their Immediate Complications. *Treatment of open wounds, severe contusions, shock, and burns; demonstrates chemotherapy in these treumatic states*----------	Do.
8-42	1942	Preparation and Administration of Intravenous Solutions. *Methods for blood transfusion and infusion of electrolytes; shows method of preparing and administering blood substance*----------	Do.
8-43	1942	Methods of Military Training. *Methods and means for the conduction of military training as prescribed in FM 21-5*----------	No notes.
8-44	1942	Medical Service of the Cavalry Division. *Organization, functions, and establishment of various installations designed to render medical service for the cavalry division; this is divided into six parts, as follows: Part A—Unit Medical Service. Part B—Division Medical Service. Section I—Division Surgeon's Office. Section II—The Medical Squadron. Part C—Headquarters Detachment, Medical Squadron. Part D—The Collecting Troop, Medical Squadron, Part E—The Clearing Troop, Medical Squadron. Part F—The Veterinary Troop, Medical Squadron*----------	Do.
8-45	1942	Restraint and Control of Animals. *Methods used by the cavalry in controlling animals for training purposes. Complete explanation and description of the meaning of restraint is given in regard to the training of horses for specific purposes* ----------	Do.
8-49	1942	Animal Injuries—Prevention, First Aid and Emergency Treatment. *Definition; causes; classification; preventive measures; medical treatment of injuries*----------	Do.
8-50	1943	Application of the Army Leg Splint. *Principles involved in the group method of teaching the application and use of Army half ring, hinged leg splint; shows the equipment necessary for an applicatory exercise; and details each step in the proper method of applying the splint; demonstrates methods of fixation of the splint with both the litter bar and muslin bandages. Reference.*	
8-51	1943	Reconstitution and Use of Standard Army-Navy Package of Dried Plasma. *Contents of the Standard Army-Navy package of dried plasma and details each step in the proper method of opening the package, restoring the plasma with dis-*	

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		tilled water, assembling the intravenous set, and administering of plasma, with emphasis on the administration of plasma in the forward echelons. Reference.	
8–54	1943	Animal Diseases—Prevention, First Aid, Emergency Treatment. *Common diseases of the horse, how they may be recognized, the predisposing causes, control measures, and general emergency treatment*	No notes.
8–55	1943	Classes and Grades of Poultry. *Classes of poultry, such as broilers, fryers, roasters, fowl, ducks, geese, turkeys, etc., together with grading factors demonstrated by numerous views of high and low grade birds, including packaging and storage. References.*	
8–56	1943	Cheese—Types, Forms, and Grades. *Types, forms, cures, and grades of the more common varieties of cheese, including the recognized cheese grading factor. Demonstrates the sampling and scoring of cheese*	No notes.
8–57	1943	Venereal Disease. *Importance and seriousness of venereal diseases. Description of the disease with special emphasis on gonorrhea and syphilis and minor emphasis on chancroid, lymphogranuloma venereum, and granuloma inguinale, general discussion of modes of spread. Reference.*	
8–58	1943	Venereal Disease—Prophylaxis. *Principles involved in the mechanisms of venereal infection; use of mechanical prophylaxis, of station chemical prophylaxis, and use of chemical prophylaxis kit. Reference.*	
8–59	1943	Venereal Disease—Control. *Importance of the venereal diseases; factors governing their prevalence and measures for their control. The following control measures are discussed: promotion of continence, repression of prostitution, prophylaxis, case findings, treatment and education. Reference.*	
8–60	1943	Disposal of Waste. *Methods and sanitary devices for the proper disposal of garbage, liquid kitchen wastes and human wastes; it also shows how to care for and maintain these sanitary facilities. Reference.*	
8–61	1943	Mess Sanitation. *Sanitary devices and methods to be used in messes in order to control intestinal diseases; including field messes; ice boxes; fly control; washing of mess kits, and precautions in the preparation of food. Reference.*	
8–62	1943	Waste Supply and Purification. *Procurement, responsibility, and requirements, sources and methods (unit and individual) of field purification, storage, and distribution of water. Reference.*	
8–63	1943	Housing and the Control of Respiratory Diseases. *Importance of the chief respiratory diseases from a military standpoint; proper housing as a means of controll-*	

FS No.	Year released	Subject	Remarks
		ing respiratory diseases, with particular emphasis upon spacing and ventilation; housing requirements in the field; other measures helpful in the control of respiratory diseases. Reference.	
8–64	1944	Control of Insect-borne Diseases. *Procedure to be observed in controlling diseases transmitted by flies, mosquitoes, lice, fleas, and ticks*.....	No notes.
8–65	1943	Chemical Warfare Injuries, Prophylaxis and Therapy—Part I—Lung Irritants (Color). *Clinical appearance of human cases and the pathological lesions of the respiratory tract produced in animals by phosgene, chlorine, and chloropicrin. Reference.*	
8–66	1944	Chemical Warfare Injuries, Prophylaxis and Therapy—Part II—The Vesicants (Color). *Typical injuries of the eyes, skin, and respiratory tract, due to mustard vapor and liquid mustard; progress of lesions; results of prophylaxis and therapy, but not therapeutic procedure. Reference.*	
8–67	1944	Chemical Warfare Injuries, Prophylaxis and Therapy—Part III—The Vesicants (Color). *Typical injuries of the eyes, skin, and respiratory tract caused by lewisite and nitrogen mustards; progress of lesions under treatment, but not therapeutic procedure. Reference.*	
8–68	1944	Chemical Warfare Injuries, Prophylaxis and Therapy—Part IV—Miscellaneous Agents (Color). *Typical injuries produced by chloracetophenone, arsine, and white phosphorus, including progress of the lesions. Reference.*	
8–69	1944	First Aid for Combat Injuries. *Methods and means of rendering first aid under combat conditions, including use of first-aid packet, stopping of bleeding, treatment of common types of war wounds, and prevention of shock. Reference.*	
8–70	1943	First Aid for Non-combat Injuries. *Stresses the employment of improvised means to provide the necessary first aid for the following injuries and emergencies: minor wounds; burns; simple fractures; sprains; injured back and spine; drowning; electric shock; carbon-monoxide poisoning; snake-bite; foreign body in eye, ear, nose, throat, and skin; blister; poison ivy, oak, and sumac; fainting; heatstroke; and unconsciousness of unknown cause. Reference.*	
8–71	1943	First Aid—Transportation of Casualties. *Methods of manual transportation of casualties by one and two men, and methods of constructing improvised litters. Points out precautions that must be taken in transporting casualties with certain type of wounds. Reference.*	
8–73	1943	Medical Supply. *Five general classes of supply; medical supply procedure*	

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		in garrison, in the field, and in combat, and the 10 medical supply classes. Reference.	
8–74	1944	The Morphine Syrette.	
		Proper use of the morphine syrette, and explains when and how to administer morphine----------	No notes.
8–75	1943	Medical Service of the Infantry Division—Part I—Medical Detachments.	
		Introduces the subject of the medical service of the infantry division to supplement lectures, conferences, demonstrations, and practical application in the field. Reference.	
8–76	1944	Medical Service of the Infantry Division—Part II—The Medical Battalion.	
		Introduces the subject of the medical service of the infantry division, to supplement lectures, conferences, demonstrations, and practical application in the field. Reference.	
8–77	1944	Common Military Vehicles as Patient Carriers.	
		Ways in which various military vehicles can be temporarily converted for use in the transportation of wounded. Stresses those expedients that do not involve major structural changes of the vehicle----------	No notes.
8–78	1943	Ambulance Loading and Unloading—Cross Country Ambulance—The ¾-ton 4x4.	
		Systematic steps in loading and unloading of the ¾-ton, 4x4 cross country ambulance----------	Do.
8–79	1944	Anatomy and Physiology.	
		Ten simplified instructional charts, in color, of the skeleton, musculature, internal organs, digestive tract, genital and urinary system, circulation, and nerves, with the major features in each chart labeled----------	Do.
8–80	1944	The First-Aid Kit for Gas Casualties.	
		First-aid measures to be taken for irritation of the nose and eyes, effects of various vesicant agents on the skin and the eye, phosphorus burns, and HCN gas poisoning. Reference.	
8–81	1944	Ward Management and Nursing—Part I—Ward Management, Temperature, Pulse, Respiration, Bed Making, and Bathing.	
		Simple operations of nursing procedure which the enlisted man assigned to duty in the hospital ward may be called upon to perform: ward management; the taking of temperature; pulse and respiration; making of an occupied bed; and bathing a bed patient----------	No notes.
8–82	1944	Ward Management and Nursing—Part II—Foods and Fluids, Body Wastes, Specimens, Enemas, Medicines, Heat and Cold.	
		Simple operations of nursing procedure which the enlisted man, assigned to duty in the hospital ward, may be called upon to perform: serving of food and administration of fluids; collection of body wastes; collection of specimens; giving of enemas; giving of medicines, and applications of heat and cold----------	Do.

FS No.	Year released	Subject	Remarks
8–83	1944	River Crossings for Medical Units. *Presents the use of standard engineer equipment for river crossings as carried out by medical units and also illustrates several improvised methods of crossing rivers utilizing standard equipment issued Medical Detachments and Medical Battalions.*	
8–84	1944	—Medical Equipment for Battalion Medical Section. *Depicts the relative mobility, content and use in tactical situations of the unit Medical Equipment Pack #97395.*	No notes.
8–86	1944	U. S. Army Field X-ray Equipment—Part I—Table Unit (Item 96145), Unpacking and Assembly. *Unpacking and assembling of the subject X-ray apparatus. Shows its adaptations to various purposes.*	Do.
8–87	1944	U. S. Army Field X-ray Equipment—Part II—Assembly and Adaptations of Field Table (Item 96145) with X-ray Machine (Item 96085). *Unpacking and assembling of the subject X-ray apparatus. It also shows its adaptations to various purposes.*	Do.
8–88	1944	U. S. Army Field X-ray Equipment—Part III—Mobile Base and Tube Stand Assembly (Items 96090, 96090–10). *Unpacking and assembling of the subject X-ray apparatus. It also shows its adaptations to various purposes.*	Do.
8–89	1944	U. S. Army Field X-ray Equipment—Part IV—Transformer Tube and Control Assembly (Item 96085 with Item 96090). *Unpacking and assembling of the subject X-ray apparatus. Also shows its adaptations to various purposes.*	Do.
8–90	1944	U. S. Army Field X-ray Equipment—Part V—Combination Table and Machine Unit Assembly (Item 96215). *Unpacking and assembling of the subject X-ray apparatus. Also shows its adaptations to various purposes.*	Do.
8–92	1944	Foreign Body Localization (Roentgenoscopic)—Part II. *Presents in simplified diagrams the steps, theory, and geometry of foreign body localization procedures.*	Do.
9–7	1940	Ordnance Matériel, General, Aircraft and Antiaircraft Artillery—Part II—Fire Controls. *Captioned photographs of each standard instrument; progressive development.*	Notes.
9–9	1942	Gun, Automatic, 20-mm, M2—Disassembly and Assembly of Weapon. *Method of disassembling the 20-mm gun into its component parts and to point out the variations which occur in the reverse process of reassembling the weapon. It is to be used primarily for the instruction of ordnance personnel.*	Do.

FS No.	Year released	Subject	Remarks
9–10	1942	Gun, 75-mm, M1897A4 and Carriage, Gun, 75-mm, M2A3—Part I—Basic Disassembly and Assembly. *Graphical representation, primarily for ordnance personnel, of significant details in basic disassembly and assembly of major units*	Notes.
9–11	1942	Gun, 75-mm, M1897A4 and Carriage, Gun, 75-mm, M2A3—Part II—Disassembly and Assembly of Units. *Designed primarily for use of ordnance personnel*	Do.
9–20	1942	The U. S. Rifle, Cal. .30, M1—Part I—Disassembly and Assembly (3d and 4th Echelon)	Do.
9–21	1942	The U. S. Rifle, Cal. .30, M1903A1—Part I—Disassembly and Assembly (3d and 4th Echelon). *M1903A1 rifle in detail; disassembly, assembly, nomenclature, inspection. Historical background of M1903 and M1917 rifles, briefly*	Do.
9–22	1942	The U. S. Rifle, Cal. .30, M1903A1—Part II—Inspection and Repair (3d and 4th Echelon). *Necessary inspection procedure and use of inspection gauges*	Do.
9–23	1942	The U. S. Rifle, Cal. .30, M1—Part II—Inspection and Repair (3d and 4th Echelon). *Necessary inspection procedure and use of inspection gauges*	Do.
9–24	1942	The Browning Machine Gun, Cal. .50, M2—Part I—Disassembly and Assembly (3d and 4th Echelon)	Do.
9–26	1943	The Howitzer, 105-mm, M2A1 and Carriage, Howitzer, 105-mm, M2—Part I—Basic Disassembly and Assembly. *Removal of subassemblies and variations in reverse process of reassembling*	Do.
9–27	1942	The Howitzer, 105-mm, M2A1 and Carriage, Howitzer, 105-mm, M2—Part II—Nomenclature, Disassembly and Assembly of Units, Inspection. *Nomenclature of major parts of weapon; disassembly and and assembly of units; inspection procedures*	Do.
9–28	1942	Gun, Automatic, 37-mm, M4—Part I—Disassembly and Assembly of Weapon	Do.
9–29	1942	Gun, Automatic, 37-mm, M4—Part II—Disassembly and Assembly of Weapon. *This second half is dependent on FS 9–28 and cannot be used alone except when class instruction is concerned with the disassembly of a certain part of the weapon, such as the recuperator mechanism*	Do.
9–33	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part I—Disassembly of the Dual Engine into Single Engines, Assembly of the Single Engines into Dual Engine	Do.
9–34	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part II—Removal and Replacement of the Cylinder Block Subassemblies	Do.

FS No.	Year released	Subject	Remarks
9-35	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part III—Disassembly and Assembly of the Cylinder Block	Notes.
9-36	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part IV—Disassembly and Assembly of the Cylinder Head	Do.
9-37	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part V—Disassembly and Assembly of the Blower	Do.
9-38	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part VI—Disassembly and Assembly of the Pump Assemblies, Water Pump, Fuel Pump, Oil Pump	Do.
9-39	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part VII—Disassembly and Assembly of Governor Assembly, Blower Drive Coupling Assembly, Camshaft and Balance Shaft Assemblies, Air Heaters	Do.
9-40	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part VIII—Disassembly and Assembly of Engine Transfer Gear Housing, Clutch Housing, Clutch, Fan Assemblies	Do.
9-41	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part IX—Disassembly and Assembly of the Injector	Do.
9-42	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part X—Disassembly and Assembly of the Generator and Starter Motor Assemblies	Do.
9-43	1942	Dual General Motors Diesel Engine—Blower System, Assembly and Timing	Do.
9-44	1942	Dual General Motors Diesel Engine—Blower System, Theory of Operation	Do.
9-45	1942	U. S. Rifle, Cal. .30, M1917 (Enfield). *Nomenclature and precautions*	Do.
9-47	1943	Cadillac Engine, Disassembly and Assembly—Part I—Removal of Subassemblies. *Reference.*	
9-48	1943	Cadillac Engine, Disassembly and Assembly—Part II—Replacement of Subassemblies. *Reference.*	
9-49	1943	Cadillac Engine, Disassembly and Assembly—Part III—Disassembly of Cylinder Block. *Reference.*	
9-50	1943	Cadillac Engine, Disassembly and Assembly—Part IV—Assembly of Cylinder Block. *Reference.*	
9-51	1943	Cadillac Engine, Disassembly and Assembly—Part V—Disassembly and Assembly of Starter and Generator. *Reference.*	

FS No.	Year released	Subject	Remarks
9–52	1943	Cadillac Engine, Disassembly and Assembly—Part VI —Disassembly and Assembly of Distributor and Support. *Reference.*	
9–53	1943	Cadillac Engine, Disassembly and Assembly—Part VII —Disassembly and Assembly of Subassemblies, Fuel Pump, Oil Pump, Water Pump, Fan, and Piston. *Reference.*	
9–54	1943	Cadillac Engine, Disassembly and Assembly—Part VIII—Disassembly and Assembly of Carburetor. *Reference.*	
9–55	1943	Power Train for Tank M4, Disassembly and Assembly —Part I—Disassembly of Power Train into Major Subassemblies, Assembly of Major Subassemblies. *Reference.*	
9–56	1943	Power Train for Tank M4, Disassembly and Assembly —Part II—Disassembly and Assembly of Differential Carrier Assembly. *Reference.*	
9–57	1943	Power Train for Tank M4, Disassembly and Assembly —Part III—Disassembly and Assembly of Differential. *Reference.*	
9–58	1943	Power Train for Tank M4, Disassembly and Assembly —Part IV—Disassembly and Assembly of Final Drive Assembly. *Reference.*	
9–59	1943	Power Train for Tank M4, Disassembly and Assembly —Part V—Disassembly of Transmission. *Reference.*	
9–60	1943	Power Train for Tank M4, Disassembly and Assembly —Part VI—Disassembly of Transmission (Continued). *Reference.*	
9–61	1943	Power Train for Tank M4, Disassembly and Assembly —Part VII—Assembly of Transmission. *Reference.*	
9–62	1943	Power Train for Tank M4, Disassembly and Assembly —Part VIII—Disassembly and Assembly of Input Shaft and Countershaft. *Reference.*	
9–63	1943	Power Train for Tank M4, Disassembly and Assembly —Part IX—Disassembly and Assembly of Output Shaft. *Reference.*	
9–34	1943	Power Train for Tank M4, Disassembly and Assembly —Part X—Disassembly and Assembly of Transmission Subassemblies. *Reference.*	
9–65	1943	Power Train for Tank M5, Disassembly and Assembly —Part I—Disassembly and Assembly of Power Train into Major Subassemblies. *Reference.*	

FS No.	Year released	Subject	Remarks
9–66	1943	Power Train for Tank M5, Disassembly and Assembly —Part II—Disassembly of Transfer Unit, Removal of Subassemblies. *Reference.*	
9–67	1943	Power Train for Tank M5, Disassembly and Assembly —Part III—Disassembly of Transfer Unit, Removal of Subassemblies (Continued). *Reference.*	
9–68	1943	Power Train for Tank M5, Disassembly and Assembly —Part IV—Assembly of Transfer Unit, Replacement of Subassemblies. *Reference.*	
9–69	1943	Power Train for Tank M5, Disassembly and Assembly —Part V—Disassembly and Assembly of Transfer Unit, Reverse and Low Gear Brake Servos. *Reference.*	
9–70	1943	Power Train for Tank M5, Disassembly and Assembly —Part VI—Disassembly and Assembly of Transfer Unit, Oil Pump and Governor Carrier. *Reference.*	
9–71	1943	Power Train for Tank M5, Disassembly and Assembly —Part VII—Disassembly and Assembly of Transfer Unit, Valve and Accumulator Body Assembly. *Reference*	
9–72	1943	Power Train for Tank M5, Disassembly and Assembly —Part VIII—Disassembly and Assembly of Transfer Unit, Low Gear Brake and Clutch Drum Assembly. *Reference.*	
9–73	1943	Power Train for Tank M5, Disassembly and Assembly —Part IX—Disassembly and Assembly of Final Drive Unit. *Reference.*	
9–74	1943	Power Train for Tank M5, Disassembly and Assembly —Part X—Disassembly and Assembly of Differential Case Assembly. *Reference.*	
9–75	1943	Power Train for Tank M5, Disassembly and Assembly —Part XI—Disassembly and Assembly of Controlled Differential. *Reference.*	
9–76	1943	Hydramatic Transmission for Tank M5, Disassembly and Assembly—Part I—Disassembly into Major Subassemblies. *Reference.*	
9–77	1943	Hydramatic Transmission for Tank M5, Disassembly and Assembly—Part II—Assembly of Major Subassemblies. *Reference.*	

FS No.	Year released	Subject	Remarks
9–78	1943	Hydramatic Transmission for Tank M5, Disassembly and Assembly—Part III—Disassembly and Assembly of Oil Pan, Rear Oil Pump and Governor Assembly. *Reference.*	
9–79	1943	Hydramatic Transmission for Tank M5, Disassembly and Assembly—Part IV—Disassembly and Assembly of Front Servo and Oil Pump Body Assembly, Rear Servo Assembly. *Reference.*	
9–80	1943	Hydramatic Transmission for Tank M5, Disassembly and Assembly—Part V—Disassembly and Assembly of Reverse Unit and Rear Bearing Retainer Assembly. *Reference.*	
9–81	1943	Hydramatic Transmission for Tank M5, Disassembly and Assembly—Part VI—Disassembly and Assembly of Front and Rear Brake Drum Assemblies. *Reference.*	
9–82	1943	Hydramatic Transmission for Tank M5, Disassembly and Assembly—Part VII—Disassembly and Assembly of Transmission Control Valve Assembly. *Reference.*	
9–83	1943	The 81-mm Mortar M2 and Mount—Part I—Disassembly of Barrel from Bipod and Base Plate	No notes.
9–84	1943	The 81-mm Mortar M2 and Mount—Part II—Disassembly and Assembly	Do.
9–85	1943	The 60-mm Mortar M2 and Mount—Part I—Disassembly and Assembly. *Nomenclature of parts of the bipod and barrel, and complete procedure of disassembly of bipod*	Do.
9–86	1943	The 60-mm Mortar M2 and Mount—Part II—Disassembly and Assembly	Do.
9–87	1943	The Smith and Wesson Revolver, Cal. 45, M1917—Disassembly and Assembly Inspection. *Front, rear, and side views showing characteristics of the revolver; correct procedures in removing the barrel; disassembly of the hammer and trigger assemblies, the cylinder and crane, and the complete assembly of these units*	Do.
9–88	1943	The Colt Revolver, Cal. .45, M1917—Disassembly and Assembly Inspection. *Front, rear, and side views showing characteristics of the revolver; correct procedures in removing the barrel; disassembly of the hammer and trigger assemblies, the cylinder and crane, and complete assembly of these units*	Do.
9–89	1943	The Browning Automatic Rifle, Cal. .30, M1918A2 and Bipod M1918A2, Disassembly and Assembly—Part I—Disassembly and Assembly of Bipod, Stock Rest, Magazine, and Trigger Guard	Do.

FS No.	Year released	Subject	Remarks
9–90	1943	The Browning Automatic Rifle, Cal. .30, M1918A2 and Bipod M1918A2, Disassembly and Assembly—Part II—Disassembly and Assembly of Functioning Groups	
		Disassembly and assembly of the following parts: operating handle, slide and gas cylinder, and bolt group	No notes.
9–91	1943	The Browning Automatic Rifle, Cal. .30, M1918A2 and Bipod M1918A2, Disassembly and Assembly—Part III—Disassembly and Assembly of Butt Plate and Sight Groups.	
		Disassembly and assembly of the butt plate and buffer assembly; rear sight group; front site; gas cylinder; tube bracket and barrel	Do.
9–92	1943	The Browning Automatic Rifle, Cal. .30, M1918A2 and Bipod M1918A2, Disassembly and Assembly—Part IV—Removal of Parts without Disassembly, Inspection and Gaging	Do.
9–93	1943	The Browning Machine Gun, Cal. .30, M1917A1, Disassembly, Assembly, Inspection and Gaging—Part I—Disassembly of Major Groups from and Assembly to the Weapon	Do.
9–94	1943	The Browning Machine Gun, Cal. .30, M1917A1, Disassembly, Assembly, Inspection and Gaging—Part II—Disassembly and Assembly of Back Plate Group, Bolt Group, Block Frame Assembly, Barrel Extension	Do.
9–95	1943	The Browning Machine Gun, Cal. .30, M1917A1, Disassembly, Assembly, Inspection and Gaging—Part III—Disassembly and Assembly of Cover Group, Rear Sight Group, the Receiver and Water Jacket	Do.
9–96	1943	The Browning Machine Gun, Cal. .30, M1917A1, Disassembly, Assembly, Inspection and Gaging—Part IV—Inspection and Gaging Bolt Group	Do.
9–97		Carbine, Cal. .30, M1—Disassembly and Assembly	Do.
9–98	1943	The Howitzer, Pack, 75-mm, M1A1 and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection—Part I—Removal of Major Parts.	
		Detailed procedure for removal of top sleigh, bottom sleigh, equilibrators, cradle, top carriage, and firing base	Do.
9–99	1943	The Howitzer, Pack, 75-mm, M1A1 and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection—Part II—Disassembly of Wheel Assembly, Bottom Carriage	Do.
9–100	1943	The Howitzer, Pack, 75-mm, M1A1 and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection—Part III—Disassembly Traversing Mechanism, Elevating Mechanism	Do.

FS No.	Year released	Subject	Remarks
9–101	1943	The Howitzer, Pack, 75-mm, M1A1 and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection—Part IV—Disassembly of Breech Ring and Cradle	No notes.
9–102	1943	The Howitzer, Pack, 75-mm, M1A1 and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection—Part V—Inspection of Recoil Mechanism.	Do.
9–120	1943	The 155-mm Gun, M1A1, and Gun Carriage M1, Disassembly and Assembly—Part I—Removing the Gun and Cradle	Do.
9–121	1943	The 155-mm Gun, M1A1 and Gun Carriage M1, Disassembly and Assembly—Part II—Removing the Carriage, Limber, Bogie, and Train	Do.
9–122	1943	The 155-mm Gun, M1A1, and Gun Carriage, M1, Disassembly and Assembly—Part III—Disassembly of the Breech Mechanism. *Removal of pins, screws, firing mechanism, safety plunger housing, detent, collar, counterbalance assembly, housing and obturator, spindlespring, obturator spindle assembly, breech lock operating lever, crankshaft breechlock carrier and the assembly*	Do.
9–123	1943	The 155-mm Gun, M1A1, and Gun Carriage M1, Disassembly and Assembly—Part IV—Disassembly of the Top Carriage. *Disassembly of the traversing mechanism and the elevating mechanism are shown in technical detail for ordnance personnel*	Do.
9–124	1943	The 155-mm Gun, M1A1 and Gun Carriage M1, Disassembly and Assembly—Part V—Disassembly of the Trunnions. *Details of right and left trunnions and complete procedure of disassembly of the trunnions*	Do.
9–125	1943	The 155-mm Gun, M1A1, and Gun Carriage M1, Disassembly and Assembly—Part VI—Disassembly of the Replenisher and of the Variable Recoil Mechanism	Do.
9–126	1943	The 155-mm Gun, M1A1 and Gun Carriage M1, Disassembly and Assembly—Part VII—Disassembly of of the Bogie. *Steps in the assembly and disassembly of bogie lifting mechanism, screws, bogie wheels and brakes, and bogie axle; identification of parts; precautions*	Do.
9–127	1943	The 155-mm Gun, M1A1, and Gun Carriage M1, Disassembly and Assembly—Part VIII—Disassembly of the Bogie (Continued). *Disassembly of the diaphragms, and detailed procedure for the removal of the bogie leaf springs; reassembly*	Do.
9–128	1943	The 155-mm Gun, M1A1 and Gun Carriage M1, Disassembly and Assembly—Part IX—Disassembly of the Heavy Carriage Limber M2	Do.

FS No.	Year released	Subject	Remarks
9–129	1943	The 155–mm Gun, M1A1 and Gun Carriage M1, Disassembly and Assembly—Part X—Disassembly of the Carriage Air Line and the Emergency Relay Valve	No notes.
9–130	1943	The Howitzer, 155-mm, M1918, and Carriage, Howitzer, 155-mm, M1918A3, Disassembly and Assembly —Part I—Disassembly of Weapon. *Disassembly of breech mechanism and removal of tube*	Do.
9–131	1943	The Howitzer, 155-mm, M1918, and Carriage, Howitzer, 155-mm, M1918A3, Disassembly and Assembly —Part II—Disassembly of Weapon (Continued). *Technical description of the disassembly of the traversing mechanism and the special tools used. Ths disassembly of the elevating mechanism is shown*	Do.
9–132	1944	The Howitzer, 155-mm, M1918, and Carriage, Howitzer, 155-mm, M1918A3, Disassembly and Assembly —Part III—Disassembly of Recoil Mechanism. *Recoil in detail, and recoil stuffing box disassembly. The counterrecoil stuffing box is disassembled in the same manner as the recoil stuffing box. The counterrecoil piston and rod assembly is explained*	Do.
9–133	1943	The Howitzer, 155-mm, M1918, and Carriage, Howitzer, 155-mm, M1918A3, Disassembly and Assembly —Part IV—Disassembly of Recoil Mechanism (Continued)	Do.
9–134	1943	The Howitzer, 155-mm, M1918, and Carriage, Howitzer, 155-mm, M1918A3, Disassembly and Assembly —Part V—Disassembly of Units	Do.
9–135	1943	The 37-mm Automatic Gun M1A2, Disassembly and Assembly—Part I—Removal of the Gun from Carriage and Disassembly into Units	Do.
9–136	1943	The 37-mm Automatic Gun M1A2, Disassembly and Assembly—Part II—Disassembly and Assembly of the Lock Frame, Breech Block, Tube Extension and Back Plate	Do.
9–137	1943	The 37-mm Automatic Gun M1A2, Disassembly and Assembly—Part III—Disassembly and Assembly of the Feed Box and Recuperator	Do.
9–138	1943	The U. S. Rifle, Cal. .30, M1—Inspection	Do.
9–139	1943	The U. S. Rifle, Cal. .30, M1, Maintenance and Repair —Part I	Do.
9–140	1943	The U. S. Rifle, Cal. .30, M1, Maintenance and Repair —Part II	Do.
9–141	1943	The Launcher, Rocket, A.T., 2.36-inch, M1—Disassembly and Assembly	Do.
9–142	1943	The Browning Automatic Rifle, Cal. .30, M1918A2, Maintenance and Repair—Part I	Do.
9–143	1943	The Browning Automatic Rifle, Cal. .30, M1918A2, Maintenance and Repair—Part II	Do.
9–144	1943	Identification of Ordnance Matériel, Automotive—Part I	Do.

FS No.	Year released	Subject	Remarks
9–145	1943	Identification of Ordnance Matériel, Automotive—Part II	No notes.
9–148	1943	Identification of Ordnance Matériel, Artillery—Part I. *Introduction, mortars and howitzers*	Do.
9–149	1944	Identification of Ordnance Matériel, Artillery—Part II.	Do.
9–150	1944	Identification of Ordnance Matériel, Artillery—Part III.	Do.
9–151	1943	Identification of Ordnance Matériel, Artillery—Part IV.	Do.
9–152	1943	The Browning Machine Gun, Cal. .50, M2, Inspection Gaging—Part I	Do.
9–153	1943	The Browning Machine Gun, Cal. .50, M2, Inspection and Gaging—Part II	Do.
9–154	1943	The Browning Machine Gun, Cal. .50, M2, Inspection and Gaging—Part III	Do.
9–155	1943	The Carbine, Cal. .30, M1—Inspection	Do.
9–156	1943	The Carbine, Cal. .30, M1—Maintenance and Repair.	Do.
9–157	1943	The Thompson Submachine Gun, Cal. .45, M1928A1—Maintenance and Repair	Do.
9–158	1944	Bomb Reconnaissance—Part I—Diagnosis of Exploded Bombs	Do.
9–159	1943	Bomb Reconnaissance—Part II—Diagnosis of Unexploded Bombs	Do.
9–160	1944	Bomb Reconnaissance—Part III—Reporting System, Safety and Evacuation, Protective Works	Do.
9–161	1943	Identification of Foreign Bombs—Part I—German	Do.
9–162	1943	Identification of Foreign Bombs—Part II—Japanese	Do.
9–163	1943	Identification of Foreign Bombs—Part III—Italian	Do.
9–164	1943	Identification of Foreign Bombs—Part IV—French	Do.
9–165	1943	Tire Maintenance—Part I—Casing Repair. *More common types of casing repair and illustrates the procedure of treating and repairing inside and outside injuries. Emphasis is placed upon correct procedure and proper sequence*	Do.
9–166	1943	Tire Maintenance—Part II—Retreading. *Inspection procedure, showing use of precision buffer, tire building stand, cushion gum, stitching machine, inspection spreader, retreading mold, and hardness gauge.*	Do.
9–167	1943	AC Mechanical Fuel Pumps—Part I—All Series, Troubles, Tests, and Remedies. *Causes of trouble in the pump are discussed, diagnosed, and a remedy prescribed. A demonstration of the pressure and vacuum gauge is shown testing the pump pressure and the capacity. Vary of fuel flow is discussed.*	Do.
9–168	1943	AC Mechanical Fuel Pumps—Part II—Series "B" and "R," Disassembly and Assembly. *A kit containing parts to be used in repairing pump is shown. The assembly and disassembly of the "B" series pump is demonstrated and explained. The second half of the strip does the same thing with the "R" series*	Do.
9–169	1943	AC Mechanical Fuel Pumps—Part III—Combination Fuel and Vacuum Pump, Series "AJ," Disassembly and Assembly. *Illustrates part kit containing diaphragms, links, screens,*	

FS No.	Year released	Subject	Remarks
		gaskets, valves, cage assemblies. The disassembling section and vacuum pump is shown	No notes.
9–170	1943	Identification of Ordnance Matériel, Small Arms—Part I	Do.
9–171	1944	Identification of Ordnance Matériel, Small Arms—Part II	Do.
9–172	1943	The Antiaircraft Machine Gun Mount, Cal. .50, M2A1, Disassembly and Assembly—Part I	Do.
9–173	1943	The Antiaircraft Machine Gun Mount, Cal. .50, M2A1, Disassembly and Assembly—Part II—Recoil Mechanism Housing	Do.
9–174	1943	The Browning Automatic Rifle, Cal. .30, M1918A2, Inspection and Gaging—Part I	Do.
9–175	1943	The Browning Automatic Rifle, Cal. .30, M1918A2, Inspection and Gaging—Part II	Do.
9–176	1943	The Tire Maintenance—Part III—First Echelon Maintenance	Do.
9–178	1944	The 20-mm Feed Mechanism AN–M1—Disassembly and Assembly	Do.
9–179	1944	The Submachine Gun, Cal. .45, M3—Assembly and Disassembly	Do.
9–180	1944	The Antiaircraft Machine Gun Mount, Cal. .50, M3—Disassembly and Assembly	Do.
9–181	1944	Identification of Ammunition—Part I—Ammunition, General (Color.). *Introduction to the other parts of the series and to the subject generally. It will be used in introductory courses. It will present general information on explosives and the explosive train and identify the general types of ammunition and weapons in which they are used together with the packing for each type*	Do.
9–182	1944	Identification of Ammunition—Part II—Military explosives. *Distinction between high and low explosives and indicates their practical use in the explosive train*	Do.
9–184	1944	Identification of Ammunition—Part IV—Grenades. *Elementary functioning, tactical use, marking, and packing of the various hand and rifle grenades. Hand grenades shown are fragmentation, offensive, practice, training, and chemical. Rifle grenades shown are antitank, fragmentation, and signal, together with their launchers and special cartridges*	Do.
9–185	1944	Identification of Ammunition—Part V—Trench Mortar. *The chief characteristics which distinguish trench mortar ammunition from gun and howitzer ammunition are illustrated and explained, including portability, streamlining, methods of propelling, method of achieving stability in flight, and trajectory. Also service and special-purpose rounds for the 60-mm and 81-mm mortars are considered individually, with particular emphasis on stenciled markings, round components, and packing*	Do.

FS No.	Year released	Subject	Remarks
9–189	1944	The 75-mm Tank Gun M3, and Combination Mount M34—Inspection	No notes.
9–191	1944	Storage of Ammunition—Part II—Lay-out and Stacking in ASP Combat Zone	Do.
9–192	1944	The 20-mm Feed Mechanism, AN–M1—Maintenance and Repair	Do.
9–193	1944	The Light Tank M5A1—Adjustment of Power Train Linkages	Do.
9–194	1944	Maintenance of the Governor, Handy-Vari-Speed—Part I—Disassembly and Replacement of Parts	Do.
9–195	1944	Maintenance of the Governor Handy Vari-Speed, Calibration and Installation—Part II	Do.
9–196	1944	The Low Voltage Circuit Tester—Part I	Do.
9–197	1944	The Low Voltage Circuit Tester—Part II	Do.
9–198	1944	The Low Voltage Circuit Tester—Part III	Do.
9–199	1944	The Low Voltage Circuit Tester—Part IV	Do.
9–200	1944	Identification of German Matériel, Small Arms—Part I	Do.
9–201	1944	Identification of German Matériel, Small Arms—Part II	Do.
9–202	1944	Identification of Japanese Matériel, Small Arms—Part I	Do.
9–203	1944	Identification of Japanese Matériel, Small Arms—Part II. *Photographs show general views, distinguishing features, and give basic data for Japanese small arms, including light machine guns (6.5-mm and 7.7-mm), heavy machine guns (13.2-mm and 7.7-mm), tank machine gun (7.7-mm), antitank machine gun (20-mm), aircraft machine guns and cannon (7.7-mm, 12.7-mm and 20-mm)*	Do.
9–204	1944	Identification of German Matériel, Artillery—Part I. *Photographs, basic data and distinguishing features of German antiaircraft and antitank matériel are shown. Antiaircraft weapons considered are models found with the following bore diameters: 2-cm., 3.7-cm., 8.8-cm., and 10.5-cm. Antitank weapons shown are 5.0-cm., 7.5-cm., 7.62-cm; and the following taper bore (GERLICH) weapons; 2.8/20-cm., 4.2/2.8-cm., and 7.5/5.5-cm*	Do.
9–205	1944	Identification of German Matériel, Artillery—Part II. *Photographs, basic data and distinguishing features of German Infantry support weapons as shown. Tank guns treated are the 5.0-cm and 7.5-cm. Field Artillery; 7.5-cm., 10.0-cm., and 10.5-cm. Mortars; 5.0-cm. and 8.1-cm. Rocket gun; 15.0-cm. Long range artillery; 15.0-cm., 17.0-cm. and 21.0-cm*	Do.
9–206	1944	Spray Painting Equipment. *Description, use, and operation*	Do.
9–207	1944	Care and Cleaning of Spray Paint Equipment.	Do.
9–208	1944	The 75-mm Pack Howitzer, M1A1, and Carriages, M1, M8, and M3A3, Ordnance Inspection—Part I	Do.
9–209	1944	The 75-mm Pack Howitzer, M1A1, and Carriage, M1, M8, and M3A3, Ordnance Inspection—Part II	Do.

FS No.	Year released	Subject	Remarks
9-210	1944	The 37-mm Gun, M3 and Carriage, M4A1—Ordnance Inspection	No notes.
9-211	1944	The 37-mm Gun, M3 and Carriage, M4A1—Ordnance Maintenance and Repair	Do.
9-212	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Preventive Maintenance, First Echelon—Part I	Do.
9-213	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Preventive Maintenance, First Echelon—Part II	Do.
9-214	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Preventive Maintenance, First Echelon—Part III	Do.
9-215	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Preventive Maintenance, First Echelon—Part IV	Do.
9-216	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Preventive Maintenance, Second Echelon—Part I	Do.
9-217	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Preventive Maintenance, Second Echelon—Part II	Do.
9-218	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Engine Removal—Part I	Do.
9-219	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Engine Removal—Part II	Do.
9-220	1944	Truck, Amphibian, 2½-ton, 6 x6, GMC, DUKW-353, Removal of Major Units—Part I	Do.
9-221	1944	Truck, Amphibian, 2½-ton, 6 x 6, GMC, DUKW-353, Removal of Major Units—Part II	Do.
9-222	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, Before Operation Service —Part I	Do.
9-223	1944	Preventive Maintenance, Automotive Wheeled Vehicles First Echelon Driver, Before Operation Service —Part II	Do.
9-224	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, Before Operation Service —Part III	Do.
9-225	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, During Operation Service —Part I	Do.
9-226	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, During Operation Service —Part II	Do.
9-227	1944	The 75-mm Pack Howitzer, M1A1, and Carriages, M1, M8 and M3A3—Ordnance Maintenance and Repair	Do.
9-228	1944	The 75-mm Tank Gun, M3 and Combination Mount M34—Ordnance Maintenance and Repair	Do.
9-229	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, at Halt Service. *Details of routine checks*	Do.
9-230	1944	Storage of Ammunition—Part III—Zone of Interior. *Inspection of box cars of ammunition before being received into the depot storage area; igloo and standard warehouse types of magazines are described and methods of stacking boxed small arms ammunition, artillery shell, and light and heavy bombs in these magazines are*	

FS No.	Year released	Subject	Remarks
		shown. Special emphasis is placed on use of TM 9-1900, Ammunition, General, 00, Form 7224, Ordnance Safety Manual, and Ordnance Department drawings for prescribed methods and safety distances	No notes.
9-233	1944	The Ignition High-Tension Circuit Tester, Ordnance Care and Use—Part I	Do.
9-234	1944	The Ignition High-Tension Circuit Tester, Ordnance Care and Use—Part II	Do.
9-235	1944	The Ignition High-Tension Circuit Tester, Ordnance Care and Use—Part III	Do.
9-236	1944	The Wood Cargo Body—Part I—Assembly	Do.
9-237	1944	The Wood Cargo Body—Part II—Mounting	Do.
9-238	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, After Operation and Weekly Service—Part I	Do.
9-239	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, After Operation and Weekly Service—Part II	Do.
9-240	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, After Operation and Weekly Service—Part III	Do.
9-241	1944	Preventive Maintenance, Automotive Wheeled Vehicles, First Echelon Driver, After Operation and Weekly Service—Part IV	Do.
9-244	1944	The Wood Cargo Body, Ordnance Maintenance and Repair—Part III. *General instructions for inspecting and maintaining the wood cargo body are followed by step-by-step procedures for repairing common types of damage—including damaged floor rails, side panels, and front panels*	Do.
9-245	1944	The Wood Cargo Body, Ordnance Maintenance and Repair—Part IV. *Continues step-by-step procedures, shown in Part III, for replacing, (or patching) damaged floor boards, bolsters, sills, or tail gates*	Do.
9-246	1944	Preventive Maintenance, Automotive Half-tracks—Part I. *Introduction stresses first echelon (driver's) use of Driver's Trip Ticket and P. M. Service Record, WD Form 48. Proceeds to illustrate and discuss the proper first echelon services to be accomplished before operation, during operation, at halt, and after operation and weekly.*	
9-247	1944	Preventive Maintenance, Automotive Half-tracks—Part II. *Continues preventive maintenance operations performed after operation and weekly. Shows how to test for, establish, and maintain, correct track tension.*	
9-248	1944	Preventive Maintenance, Automotive Half-tracks—Part III. *After operation and weekly preventive maintenance operations are considered. Items considered in detail are*	

FS No.	Year released	Subject	Remarks
		springs and suspensions, armor and front roller, lubrication, and tools and equipment.	
9–249	1944	Loading and Bracing of Ammunition in Box Cars—Part I—500-lb. Bombs, Wood Dunnage. *Step-by-step procedures in loading a box car with 500-pound bombs. The methods and information presented are in accordance with Ordnance Department Drawing 19–48–1038. Shows the handling and blocking of bombs and the installation of sway and hold-down bracing*----------	No notes.
9–250	1944	Loading and Bracing of Ammunition in Box Cars—Part II—500-lb. Bombs, Steel Strapping. *Step-by-step procedures in loading a box car with 500-pound bombs. The methods and information presented are in accordance with Ordnance Department Drawing 19–48–1037. Handling of bombs and dunnage and the use of steel strapping tools are shown*----	Do.
9–251	1944	Truck, 2½-ton, 6 x 6, GMC, Preventive Maintenance, 1,000 and 6,000 Mile—Part I—Lubrication. *Introduction stresses importance of methodical preventive maintenance. Use of War Department Lubrication Orders and WD, AGO Form 461, dealt with in detail: Air Cleaners (Item 34), Breather Caps and Ventilators (Item 35), Brake Vacuum Booster (Item 68), Crank Case (Item 23), and universal and slip joints.*	
9–252	1944	Truck, 2½-ton, 6 x 6, GMC, Preventive Maintenance, 1,000 and 6,000 Mile—Part II. *Discusses in detail items 55 and 60 as listed in WD AGO Form 461. Lubrication procedures for front wheels and steering knuckles, including disassembly and assembly, are shown in detail*----------	Do.
9–253	1944	Truck, 2½-ton, 6 x 6, GMC, Preventive Maintenance, 1,000 and 6,000 Mile—Part III—Lubrication. *Continues detailed picturization of preventive maintenance procedures indicated in WD AGO Form 461. Specific items considered are as follows: Winch (Item 87), Spring Shackles, Brake Master Cylinder (Item 67), Distributor (Item 31), Steering Gear and Starter (Item 27).*	
9–261	1944	Truck, 2½-ton, 6 x 6, GMC, Preventive Maintenance, 1,000 and 6,000 Mile—Part VI—Engine. *Preventive maintenance operations (required by WD AGO Form 461) pictured in detail are as follows: Oil Filter (Item 24), Ignition Timing (Item 41), Engine Idle and Vacuum Test (Item 42), and Idling Speed Adjustment (Item 42)*----------	No notes.
9–262	1944	Truck, 2½-ton, 6 x 6, GMC, Preventive Maintenance, 1,000 and 6,000 Mile—Part VII—Battery and Generator. *Procedures are shown for inspecting, cleaning, and testing batteries (Item 22 WD AGO Form 461). Generator*	

FS No.	Year released	Subject	Remarks
		wiring connections, support adjustment, and brushes are inspected (Item 27). Proper adjustment of drive belt is shown (Item 29).	
10–20	1942	Quartermaster Battalion Bakery. *Organization, personnel, equipment, and supply of the Quartermaster battalion bakery and the Quartermaster company bakery at war strength*	No notes.
10–33	1941	Automotive Electricity. *Fundamentals and principles of electricity and magnetism; terminology; storage battery operation and maintenance; battery and magneto ignition system; starting and generator system; lighting and other electrical units and systems*	Do.
10–34	1941	Automotive Power Transmission Units. *Power Transmission systems, clutches, overdrives, transfer cases, power take-offs, propeller shafts and universal joints, final drives, differentials, live axles and bearings; terminology and nomenclature*	Do.
10–35	1941	Chassis, Body, and Trailer Units. *Terminology and nomenclature; frames, springs and shock absorbers; suspension and steering systems; wheel alignment, rims and tires; types of bodies, trailer units and trailers*	Do.
10–36	1941	Automotive Brakes—Principles, Mechanical, Hydraulic, Air, Vacuum, Electric. *Terminology; braking system; mechanism and construction; mechanical, hydraulic, air vacuum, and electrical systems*	Do.
10–37	1941	Diesel Engines and Fuels. *Principles of operations; types, including semi-Diesels; parts and their functions including nomenclature, lubrication and cooling; fuels and fuel systems*	Do.
10–40	1941	Hand, Measuring, and Power Tools. *Specific purpose, correct use, and proper care of the common tools of the motor vehicle mechanic*	Do.
10–41	1941	The Blacksmith and the Welder. *Purpose and correct use of tools and equipment of the blacksmith and welder*	Do.
10–42	1941	The Internal Combustion Engine. *Terminology, principles of operation, types of engines, parts and their coordinated functions; engine lubrication and cooling*	Do.
10–43	1941	The Motor Vehicle. *Automotive nomenclature and terminology, common words, terms and phrases; classification, procurement, designation, registration, and description of military motor vehicles; payloads, weights and types, classification of motor vehicle units and assemblies and their functions.*	Do.
10–44	1941	Fuels and Carburetion. *Carburetor nomenclature, engine fuels, fuel systems, physics and principles of carburetion; types of carbu-*	

FS No.	Year released	Subject	Remarks
		retors, intake and exhaust systems, superchargers and governors	No notes.
10–45	1941	Service Requirements, Ford Reconnaissance Car—Part I—Maintenance and Lubrication Services. *Service requirements for the Ford passenger car; describes maintenance and lubrication service and adjustment of parts—also Army Staff Car*	Do.
10–46	1941	Service Requirements, Ford Reconnaissance Car—Part II—Engine Tune-Up. *Engine tune-up for the Ford reconnaissance car; describes complete engine tune-up, showing proper order of procedure in checking and adjusting parts and units of vehicles*	Do.
10–47	1941	Service Requirements, 1941 Ford V–8 Passenger Cars—Part I—Maintenance and Lubrication Services. *Service requirements for the 1941 Ford V–8 passenger car; describes maintenance and lubrication, including lamp replacements on Army cars*	Do.
10–48	1941	Service Requirements, 1941 Ford V–8 Passenger Cars—Part II—Engine Tune-Up. *Engine tune-up for the 1941 V–8 passenger car; describes complete engine tune-up showing proper order of procedure in checking and adjusting parts and units of the vehicle*	Do.
10–49	1941	The Machinist. *Explanation of the drill press, screw cutting engine lathe, the milling machine, the shaper, grinders and grinding and power hacksaws*	Do.
10–50	1941	28-Series Zenith Carburetor—Instruction and Operation. *Nomenclature, adjustment, repair, and overhaul of carburetors and should be used in conjunction with text material*	Notes.
10–51	1941	23-Series Zenith Carburetor—Carburetor Operations and Service Instructions. *Nomenclature, adjustment, repair, and overhaul of carburetors and should be used in conjunction with text material*	Do.
10–52	1941	Construction and Operation of Zenith 450 Series. *Nomenclature, adjustment, repair, and overhaul of carburetors and should be used in conjunction with text material*	Do.
10–53	1941	First Echelon of Maintenance. *Duties, functions, and limitations of the first echelon, a description of the personnel, tools, and equipment*	Do.
10–54	1941	Second Echelon of Maintenance. *Duties, functions, and limitations of the second echelon, a description of the personnel, tools, and equipment*	Do.
10–57	1941	The Carter Carburetor. *Principles of carburetion, maintenance and adjustment*	Do.

FS No.	Year released	Subject	Remarks
10–58	1941	Inspection of Motor Vehicles—Command, Preventive, Technical.	
		Outline of motor vehicle inspections; the purpose, technique, and types of inspection	No notes.
10–59	1941	Sheet Metal Work—Body, Fender and Radiator Repairs.	
		Illustrations to be used as instructors' charts in conducting lectures	Do.
10–61	1941	The Storage Battery.	
		Battery construction, operation, maintenance, care, and charging methods	Do.
10–62	1942	Motorcycle Inspection — Command, Maintenance, Technical.	
		Importance of systematic motorcycle inspections and methods of making them; routines of daily, weekly, monthly, and semiannual inspections	Do.
10–63	1942	Engine Tune-Up—Part I.	
		Tune-up methods, spark plugs, ignition, ignition timing, etc. Adjustments necessary	Do.
10–64	1942	Engine Tune-Up—Part II.	
		Tune-up methods, spark plugs, ignition, ignition timing, etc. Adjustments necessary	Do.
10–65	1942	Engine Tune-Up—Part III.	
		Tune-up methods, spark plugs, ignition, ignition timing, etc. Adjustments necessary	Do.
10–68	1942	GMC 2½-ton 6 x 6 Truck—Operating the Vehicle.	
		Functions and applications of various units	Do.
10–69	1942	GMC 2½-ton 6 x 6 Truck—Springs, Steering, Brake System.	
		Functions and applications of various units	Do.
10–70	1942	GMC 2½-ton 6 x 6 Truck—Power Line, Axles.	
		Functions and applications of various units	Do.
10–71	1942	GMC 2½-ton 6 x 6 Truck—Fuel Systems, Cooling System, Electrical System, Engine Maintenance, and Tune-Up.	
		Functions and applications of various units	Notes.
10–72	1942	Scheduled Lubrication and Minor Adjustments of the U. S. Army Dodge 4 x 4 Truck.	
		Systematic and scheduled greasing and lubrication of ½-ton Dodge 4 x 4 truck performed by 1st and 2d echelons; minor adjustments	Do.
10–73	1942	The Ford Six-Cylinder Engine—Disassembly.	
		Removing, dismantling, overhauling, and reassembly	No notes.
10–74	1942	The Ford Six-Cylinder Engine—Reassembly.	
		Removing, dismantling, overhauling, and reassembly	Do.
10–79	1942	Principles of the Vacuum Power Brakes.	
		Theory and advancement principles of the vacuum power brakes, hook-up and adjustment	Do.
10–80	1942	Servicing of Vacuum Power Brakes.	
		Repair of brake units; brake adjustment bleeding, flushing, brake relining, main and wheel cylinder overhaul.	Do.

FS No.	Year released	Subject	Remarks
10–82	1942	Principles of the Down-Draft Carburetor. *Operation and construction*	No notes.
10–83	1942	Overhauling the Chevrolet Carburetor. *Operation and construction*	Do.
10–84	1942	Motorcycle Lubrication (Indian). *Systematic and periodic lubrication of Indian motorcycle in 1st and 2d echelons*	Do.
10–86	1942	The Chevrolet Truck Steering Gear. *Removal, disassembly in sections, replacement and adjustment*	Do.
10–87	1942	Principles of Front End and Wheel Alignment. *Theory of front end and wheel alignment, correction of front end troubles*	Do.
10–88	1942	The Chevrolet Hydraulic Brake. *Operation and function of the hydraulic system, brake pedal, and brake shoes*	Do.
10–89	1942	Servicing the Chevrolet Hydraulic Brake. *Repair of brake units, bleeding, brake reline and cylinder overhaul, on Chevrolet trucks and passenger cars*	Do.
10–90	1942	Motorcycle Lubrication (Harley Davidson)—Part I. *500-mile and 1,000-mile procedures for lubricating Harley Davidson W.L.A. 1941 model solo motorcycle*	Do.
10–91	1942	How to Use a Micrometer. *Use in determining dimensions. Sleeve graduations and thimble readings; with problems*	Notes.
10–92	1942	The Use of Measuring Tools—The Rule. *Fractional and decimal systems; with three problems*	Do.
10–93	1942	Piston Ring and Related Parts	Do.
10–95	1943	The Five Classes of Supplies. *Routine procedures in ordering the five classes of supplies: rations, T.B.A., gas-oil, miscellaneous and ammunition*	No notes.
10–96	1943	Messing—Part II—The Railway Kitchen. *Diagrams and interior views of railway kitchen car equipped with No. 1 or M1937 field range. Close-up views of installed equipment, the food line, procedure of clearing up after meal, washing of utensils, and disposal of garbage. Includes details of outside messing*	Do.
10–97	1943	Messing—Part I—Messing in Garrison—Section I—Equipment and Cooking. *Various types of equipment used by cooks and mess and kitchen attendants are pointed out in regards to proper use and care*	Do.
10–98	1943	Messing — Part III — The Semi-Permanent Field Kitchen. *Selection of site; use of army field ranges No. 1 and M1937; cooking and baking equipment; and serving. Reference.*	
10–99	1944	Messing—Part I—Messing In Garrison—Section II—Duties of the KP.	

FS No.	Year released	Subject	Remarks
10–100	1943	Messing—Part IV—The Mobile Kitchen. *Methods of transportation, and description of the following basic equipment: the M1937 field range, firing unit, standard cooking utensils, insulated containers, water heaters and water containers. Shows the mobile kitchen in operation, including lighting facilities and messing arrangements. Reference.*	
10–101	1944	Registration of Graves—Part I—Location and Laying Out of a Temporary Cemetery. *Important factors considered in selection of site; type of soil, drainage, avoidance of water pollution, accessibility for trucks, and safety from artillery fire. Procedure of laying out temporary cemetery shown; dimensions specified*----------	No notes.
10–102	1944	Registration of Graves—Part II—Identification and Interment. *Procedure to be followed in recovering and interring bodies on the battlefield. Disposition of identification tags, and various means of identification when tags are missing, are both covered*----------	Do.
10–103	1943	Packaging of Supplies—Wooden Crate Construction. *Essential features of a wooden crate or box that will insure the delivery of war supplies into the hands of the ultimate users without losses due to breakage*----------	Do.
10–106	1943	Refrigeration of Food—Part I—In the Field. *Importance and various methods of refrigeration used in transporting perishable foods to the troops. Illustrates the following improvised methods of refrigeration in bivouac; below earth, above earth, and water*----------	Do.
10–107	1943	Refrigeration of Food—Part II—The QM Refrigeration Trailer. *Refrigeration trailer in operation, its component parts, methods of loading, and sanitation precautions*----------	Do.
10–110	1944	Warehousing—Part I—Aisle Arrangement. *Proper designation of aisles and width to allow movement of equipment and materials*----------	Do.
10–111	1943	Warehousing—Part II—Bins, Racks, and Box Pallets. *Proper methods of storing supplies in small and broken lots; efficiency of space utilization. Illustrates necessity of using proper storage space for various supplies and gives a few examples*----------	Do.
10–112	1943	Warehousing—Part III—Safety Precautions. *Safety measures to be used in protection of materials and warehouse handling of equipment and materials stored*---	Do.
10–116	1943	Operation of Class I Railhead. *Process of transferring supplies from the rear to the fighting troops at the front. Shows the requirements and operation of a railhead*----------	Do.
10–117	1944	Quartermaster Company Infantry Division—Organization and Equipment. *Organization, function, vehicles and weapons of the company, and its importance in maintaining the combat efficiency of the Infantry Division*----------	Do.

FS No.	Year released	Subject	Remarks
10–118	1943	The Army Range No. 5. *Range and its parts; method of starting, firing, operating, and cleaning the range*	No notes.
10–119	1943	Dehydrated Foods—Part I—Why Dehydrate. *Advantages of dehydrated foods; the saving in weight and space and the process of dehydrations*	Do.
10–120	1944	Dehydrated Foods—Part II—Preparation of Dehydrated Foods. *Methods for preparing dehydrated vegetables for cooking and serving*	Do.
10–121	1944	Dehydrated Foods—Part III—Reconstitution of Dairy Products, Soups, and Fruits. *Methods and formulas for reconstituting dehydrated milk, eggs, soups, and fruits, and their uses.*	
10–122	1944	Mess Supervision—Part I—Food is Ammunition. *Importance of food in the prosecution of the war; means of utilizing left-overs and excess supplies to avoid waste; necessity of maintaining cleanliness, order, and balanced diets. Reference.*	
10–123	1943	Mess Supervision—Part II—Waste is Sabotage. *Importance of mess supervision, directed at unnecessary waste, to conserve food. Reference.*	
10–124	1943	Storage and Handling of Gasoline Lubricants in the Field—Part I—Gasoline. *Precautions that must be observed in the handling of gasoline. Describes approved types of fire extinguishers, and shows what to do when a vehicle catches fire*	No notes.
10–125	1943	The Care and Use of Tarpaulins. *Correct procedure for handling tarpaulins on and off vehicles*	Do.
10–126	1943	Unloading Gasoline from Tank Cars. *Emphasizes safety precautions and will show in detail the construction of a tank, the prescribed methods of "top unloading" and "bottom unloading." It will show the correct methods of unloading gasoline from tank cars*	Do.
10–127	1943	Mess Supervision—Part III—The Use of Left-overs. *Use of left-overs, meats, vegetables, cooked foods, and rendering of fats. Their uses as substitutes for conservation of food*	Do.
10–128	1943	How to Use the One Burner Gasoline Cooking Stoves M1941 and M1942. *Setting-up and operation of the M1941 and M1942 one burner gasoline stove used by small groups of men for cooking in the field*	Do.
10–130	1944	Packing of Supplies—How to Obtain Rigidity. *Steps in the construction of a wooden crate, the selection of lumber, nailing and proper bracing for rigidity. Reference.*	
10–131	1943	The Daily Telegram. *Proper procedure for requesting subsistence supplies; the method of delivery, and the lapse of time between request and delivery*	Do.

FS No.	Year released	Subject	Remarks
10–132	1944	The Mobile Shoe Repair Trailer. *Setting up and operation of the standard shoe repair trailer; showing how shoes are received, repaired, inspected, and delivered to organizations*	No notes.
10–134	1944	Baking in the Field, Field Expedients—Part I—Adaptation of the M1937 Range for Emergency Baking. *How to convert the M1937 Field Range and its operation, for baking bread and pastry in the field, for an average company*	Do.
10–135	1944	Baking in the Field—Part II—Improvised Ovens. *Shows how to construct an improvised oven for baking: the open fire trench type and the hearth oven*	Do.
10–138	1944	Individual Cooking—Part I—Field Expedients. *How to heat and cook combat rations; how to build a fire with wood or available gasoline, and how to prepare and cook locally procured rations*	Do.
10–139	1944	Individual Cooking—Part II—Cooking Meats, Fish, Fowl, Eggs, and Vegetables. *How to make use of local procurements to supplement his ration, and how to prepare and cook hot nourishing meals*	Do.
10–140	1944	Individual Cooking—Part III—The Arctic. *Shows the individual soldier, when on his own in the Arctic, how to obtain and prepare food from the plant and animal life to be found there*	Do.
10–141	1944	Individual Cooking—Part IV—The Jungle. *How to live indefinitely in the jungle if you have some means of making a fire and securing water*	Do.
10–142	1944	Cold Weather Clothing—Part I—Principles. *Principles of the use of clothing in cold or arctic conditions; layering principles, keeping clean and dry and avoiding overheating*	Do.
10–143	1944	Cold Weather Clothing—Part II—Body Clothing. *Efficient use of specific items of cold weather body clothing and how to apply principles shown in part I—Principles*	Do.
10–144	1944	Cold Weather Clothing—Part III—Footwear. *Types of cold weather footwear and conditions under which each type should be used; how to apply principles shown in Part I—Principles*	Do.
10–145	1944	Cold Weather Clothing—Part IV—Handwear and Headgear. *Use of handwear and various types of headgear including the parka hood; how to apply principles shown in part I—principles*	Do.
10–146	1944	How to Set Up the Fumigation and Bath Unit. *Setting-up and operation of the Harbor Chamber (Plywood Type) and the Lane Chamber (Metal Type) units*	Do.
10–147	1944	Tractor Trailer Driving	Do.

FS No.	Year released	Subject	Remarks
10–148	1944	Salvage Collecting Company. *Duties of the quartermaster salvage collecting company are shown from the collection of debris on the battlefield through the advance depot and ultimate disposal of salvage to repair installations. The correct procedure for classification at the main dump is outlined including the duties of attached personnel from other arms*_____	No notes.
10–149	1944	Care and Use of Jungle Equipment. *Use and care of the following jungle clothing and equipment: uniforms, jungle boots, jungle pack, machete, socks, shirts, clothing bag, cartridge belt, combat pack, packboard, flotation bladders, rifle cover, camouflage net, ventilating insoles, waterproof food bag, mosquito bar, waterproof match box, jungle hammock, poncho, and mosquito headnet*_____	Notes.
10–150	1944	Shoe Repair—Part I—U. S. Army Shoes. *A presentation of the various types of U.S. Army service shoes which the shoe repairman will most often be called upon to repair. Includes a complete visualization of the terrain shoes, such as the ski-mountain boot, mukluk, jungle boot, shoe-pac, paratrooper boot, Blucher boot, cavalry boot and rubber hip boots. The construction of the sole and uppers of these terrain shoes is clearly shown, with a brief indication of the terrains for which they were designed. Film ends with a quiz*_____	No notes.
10–151	1944	Shoe Repair—Part II—Shoe Repair Tools. *Shows the important shoe repair tools used by the army shoe repairman in repairing service shoes. Proper handling of tools and the specific work for which each tool was designed are emphasized*_____	No notes.
10–152	1944	Shoe Repair—Part III—Shoe Construction. *The construction of the U. S. Army type 2 service shoe is shown by listing all the essential parts that go into the making of the shoe (vamp, toe cap, etc.), followed by a description of the phases in the construction of the shoe such as sewing together of the pieces of leather.*	
10–153	1944	Shoe Repair—Part IV—Essentials of Shoe Repair. *The approved army method for repairing class "C" shoes including the following phases of repair is shown: classification and determining the needed repair; the removal of worn soles and heels; the cementing, rasping, and replacement of soles and heels; and the final finishing process on the finishing machine. Also included is a brief visualization of the steps required to resole shoes by hand nailing in the event of the break-down of the stitching machine.*	
10–155	1944	Vendor's Shipping Document—Part I—Procured at Procurement Depot. *Preparation phase of the VSD master and continues through the operation until final distribution is made from the Procurement Depot. Included in this part is a general description of the document and its operation*	

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		which is followed by an explanation of how the preparatory entries are to be made. After the master has been made, the method of reproducing the copies and making the distribution is illustrated. Reference.	
10–156	1944	Vendor's Shipping Document—Part II—Procedure by Inspectors or Vendors. *Fill-in phase of the operation handled normally by the inspector and occasionally by the vendor. The information placed on the document in this phase includes all data pertinent to the actual shipment. After the shipping data has been placed on the documents, the inspector is held responsible for placing the documents in the car and distribution of the documents at the point. The film covers the discharge of those responsibilities. Reference.*	
10–157	1944	Vendor's Shipping Document—Part III—Handling VSD Copies at Army Consignees. *Consignee phase of the operation. Beginning with the due-in operation of stock control, the film covers the actual arrival of the shipment, checking in, and processing of the document until the stock appears available on the stock record. Reference.*	
10–160	1944	Shoe Repair—Part VII—Sole Stitching Machine. *Begins with a visualization of the important parts of the machine after which is a detailed presentation of threading the needle and bobbin thread, with diagrams showing the complete flow of thread into the machine. Shows the correct manner of stitching shoes in the stitcher, precautions when operating, and a guide for maintenance. At the end is a 10-frame quiz.*	
10–161	1944	Shoe Repair—Part VIII—The Finishing Machine. *Following a description of the various parts of the machine, the process of a shoe being heeled and sole sanded, inked, channeled, and finished at the edge setter is shown. In a section devoted to care and maintenance, the shoe repairman is shown how to change the abrasives on the sanding wheels, and how to change the cloth on the wax burnishing wheel. Closes with a quiz.*	
11–3	1942	Film Strip Preparation. *Steps in the production of the film strips; preparation of the scenario, frame lay-outs, photography, art work, and shipment of frame cards*	No notes.
11–4	1943	Operation of Motion Picture Projectors—Part I— 16-mm Bell and Howell. *Preparation of the projector for operation, operating procedures, rewinding the film and replacing the exciter lamp*	Do.
11–5	1943	Operation of Motion Picture Projectors—Part II—16-mm Ampro, Projection Equipment. *Procedures for setting up the projector, cleaning before operation, aligning the projector beam, threading the projector, rewinding the film, and replacing of parts*	Do.

FS No.	Year released	Subject	Remarks
11–6	1943	Operation of Motion Picture Projectors—Part III—Portable 16-mm RCA, Projection Equipment. *Procedures for setting up the projector, cleaning before operation, aligning the projection beam, threading the projector, rewinding the film, and replacing of parts*__	No notes.
11–7	1943	V-Mail. *Origin of V-Mail and the important part it plays in our present war effort; how to send letters by V-Mail; the routing of a letter, and locations of V-Mail stations*___	Do.
11–8	1943	Elementary Speed Graphic Operations. *Vital instruction for the Army cameraman in the use and care of the camera along with the following points: opening the camera; adjustment of the front and focal plane shutters; principles of focusing, of composing the picture; correct shooting positions, and manner of replacing the camera in the case*_____	Do.
11–9	1943	Radio Sets SCR–608 and SCR–628—Part I—Introduction. *Operating frequencies, power, type of transmission, and special features of transmitter, receiver and antenna*__	Do.
11–10	1943	Radio Sets SCR–608 and SCR–628—Part II—Installation. *Examples of installation in ¾-ton reconnaissance car and half-track. Includes installation of mounting base, battery cord, transmitter, receiver, antenna, and mast base*_____	Do.
11–11	1943	Radio Sets SCR–608 and SCR–628—Part III—Operation. *Preliminary checking of transmitter, receiver, and frequency settings. Operation of transmitter and receiver, remote operation, and operating tips*_____	Do.
11–12	1943	Radio Sets SCR–608 and SCR–628—Part IV—Presetting Radio Transmitter BC–684. *Complete instructions for setting push buttons, and tuning antenna circuit. Summary of entire procedure at end of film. Reference.*	
11–13	1943	Radio Sets SCR–608 and SCR–628—Part V—Presetting the Radio Receiver BC–683. *Procedures for setting push buttons, and tuning the antenna. Summary of basic steps at end of film. Reference.*	
11–15	1943	Rhombic Antennas—Part I—Engineering Principles of Rhombic Antennas. *Exemplifies transmitting properties by comparison with circular radiation of water waves and current flow in an antenna. Discusses in detail transmitting antennas radiation pattern, variation in dimensions, and wave angles, illustrating same by means of sketches, mechanical drawings, and graphs. Includes questions and answers. Reference.*	

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11–16	1943	Rhombic Antennas—Part II—Erection of Rhombic Antennas. *Details of surveying and selection of site. Procedure for erecting rhombic antennas covering the unloading of equipment digging of post holes, erecting and guying poles and stringing wires*	No notes.
11–17	1943	Radio Set SCR–284—Part I—Description. *Typical ground and vehicular installations; capabilities of the set, both electrical and mechanical; description of component parts, spare parts and accessories for vehicular installation; safety measures, and instructions for destroying equipment. Reference.*	
11–18	1943	Radio Set SCR–284—Part II—Installation. *Procedure for vehicular installation in ¾-ton reconnaissance car, 4 x 4, ¼-ton truck, half-track, and ¾-ton weapons carrier. Reference.*	
11–19	1943	Radio Set SCR–284—Part III—Operation. *How to calibrate the master oscillator, tune up on assigned frequency, and tune antenna. Shows operation as a subordinate station tuning up on NCS frequency, and tuning antenna circuit. Operating tips are included. Reference.*	
11–20	1943	Truck K–44B and Earth Borer Equipment HD—Part I—Introduction and First Echelon Maintenance. *Description, with nomenclature of the earth borer equipment and operator maintenance. Reference.*	
11–21	1943	Truck K–44B and Earth Borer Equipment HD—Part II—Operation. *Instruction for boring holes, erecting poles, and taking up wire; assembly and operation of derrick, handling of winch line, operation of power reel and safety precautions. Reference.*	
11–22	1943	Maintenance of Field Wire Circuits—Part I—Prevention of Trouble. *Four essential steps in maintaining a wire system; three phases avoiding routine bottle-necks; summarized question and answer quiz*	No notes.
11–23	1943	Maintenance of Field Wire Circuits—Part II—Detection of Trouble. *Steps for maintaining a wire system; for demonstration purposes a field telephone is used; seven most vulnerable places are discussed; question and answer quiz*	Do.
11–24	1943	Maintenance of Field Wire Circuits—Part III—Localization and Correction of Trouble. *Four essential steps in maintaining a wire system: prevention, detection, localization and correction; step-by-step procedure for localizing and correcting trouble on a division wire system, and on short local circuits; questions and answers*	Do.
11–25	1944	Telephone Central Office Set TC–4—Part I—Introduction. *Parts and general features of the TC–4 with a detailed*	

FS No.	Year released	Subject	Remarks
		description of switchboard BD–96 and panel BD–97; connections, inspection, tests, ringing power, and operator maintenance. Reference.	
11–26	1943	Telephone Central Office Set TC–4—Part II—Installation and Maintenance. *Selection of location and outlines procedures for setting up switchboard BD–96 and panel BD–97; connections, inspection, tests, ringing power, and operator maintenance. Reference.*	
11–27	1943	Telephone Central Office Set TC–4—Part III—Operation. *Procedure for operating the TC–4: local battery calls, ring off supervision, common battery truck calls, dial calls, conference calls, night alarm, second operator's circuit, and grouping circuit. Reference.*	
11–29	1944	Telephone EE–8A. *Capabilities and use; description; installation and test; adjustment and special tests for local battery operation; adjustment and special tests for common battery operation; care and maintenance*	No notes.
11–30	1943	Supression Systems for Army Vehicles. *Radio interference and its causes; how to suppress a vehicle; suppression system maintenance; testing and trouble shooting*	Do.
11–31	1943	Radio Sets SCR–609 and SCR–610—Part I—Introduction. *Electrical characteristics and features of transmitter, receiver, case, power unit, and antennas*	Do.
11–32	1944	Radio Sets SCR–609 and SCR–610—Part II—Installation. *Portable ground installation; vehicular installation in ¼-ton amphibian truck, half-track, ¾-ton weapons carrier, and ¼-ton truck*	Do.
11–33	1944	Radio Sets SCR–609 and SCR–610—Part III—Operation. *Operation of the sets, checks to be made before operation, and tips for getting best results during operation*	Do.
11–34	1944	Radio Sets SCR–609 and SCR–610—Part IV—Preparation for Presetting. *Installation of Adapter M–399 and Alignment ME–73, and all steps prior to actual presetting*	Do.
11–35	1944	Radio Sets SCR–609 and SCR–610—Part V—Presetting. *Actual adjustments in proper sequence for presetting receiver and transmitter on new channels. Should be preceded by FS 11–34.*	
11–36	1944	Test Sets EE–65 and EE–65–A, –B, –C, –D, –E, and –F—Part I—Description. *Construction, internal components and circuits, with emphasis placed on later model sets. Reference.*	

FS No.	Year released	Subject	Remarks
11–37	1944	Test Sets EE–65 and EE–65–A, –B, –C, –D, –E, and –F—Part II—Use. *Establishment and analysis of test circuits used to measure voltage, capacitance and resistance of field wire circuits. Reference.*	
11–38	1944	Radio Set SCR–506—Part I—Description. *Features of transmitter, receiver, and associated parts; antenna systems; vehicles in which installed*----------	No notes.
11–39	1943	Radio Set SCR–506—Part II—Operation. *Receiver and transmitter checks before operation; operating receiver; operating transmitter; operating tips; safety measures*----------	Do.
11–41	1944	Truck K–43 Telephone Construction and Maintenance with Winch—Part I—Introduction. *Description of the truck and the three major functions which it performs together with specific description and illustration of the derrick, power winch, power reel, tool and material compartments, and minor features of truck and equipment*----------	Do.
11–42	1944	Truck K–43 Telephone Construction and Maintenance with Winch—Part II—Operation. *Specific instruction on erecting poles, removing poles, and taking up wire. Includes assembly and operation of derrick, handling of winch line, operation of power reel, and a list of precautions to be observed in operating the equipment*----------	Do.
11–45	1944	Radio Sets SCR–808 and SCR–828—Part I—Introduction. *Introduction; component parts; features of transmitter, receiver, mounting, and antenna*----------	Do.
11–46	1944	Radio Sets SCR–808 and SCR–828—Part II—Operation. *Preliminary checks of receiver and transmitter, actual operation of receiver and transmitter, and specific operating tips*----------	Do.
11–50	1944	Film Strip Projector, PH–222—Setting Up and Operating. *Setting up and operating the PH–222 film strip projector; illustrates loading single or double frame film strips, use of the slide changer, and cleaning of the condenser lenses and heat absorbing glass*----------	Do.
11–51	1944	Circuit Diagrams. *Interpreting circuit diagrams of tactical wire systems, including illustrations of symbols used and a sample numbering system; preparing circuit diagrams and examples of use. Reference.*	
11–52	1944	Line Route Maps. *Type of construction and number of physical circuits in each section of wire line*----------	No notes.

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11–53	1944	Traffic Diagrams. *How to interpret telephone traffic diagrams, including detailed presentation of symbols. Illustrates the preparation and use of division and corps diagrams*_____	No notes.
11–54	1944	Plow LC–61 (Cable). *Description and operation of cable plow and operating precautions to be observed*_____	Do.
11–55	1944	Test Set 1–56–C—Part I—Introduction. *Introduction to the various components of the set, showing capabilities of each part*_____	Do.
11–56	1944	Test Set 1–56–C—Part II—Use of Test Meters. *Proper use of each meter. Shows several examples*_____	Do.
11–58	1944	Photographic Darkroom Procedures—Tank Development of Cut Film. *Preparation for development; development, fixing, washing, and drying of cut film*_____	Do.
11–59	1944	Photographic Darkroom Procedure—Part I—Loading Film Holders. *How to prepare and load holders, including precautions to be observed*_____	Do.
11–60	1944	Photographic Darkroom Procedure—Part III—Contact Printing. *Selection of paper, use of printer, exposing, developing, fixing, washing, and drying of the print. Shows effects of different lengths of exposure. A summary of basic steps is included*_____	Do.
11–61	1944	Photographic Darkroom Procedure—Part IV—Projection Printing. *Selection of paper, use of enlarger, making the print, and a summary of the basic steps*_____	Do.
11–63	1944	Telegraph Set TG–5–B. *Shows component parts and circuits and features installation, adjustments, and maintenance.*	
11–64	1944	Use of Repeating Coil C–161. *Shows the use of repeating coil C–161 in connecting simplex and phantom circuits and features typical installations.*	
11–65	1944	The Photographic Negative_____	No notes.
11–66	1944	Message Center Forms, Records, and Equipment. *Shows all the basic forms, records, and equipment used in message center operation and gives several typical examples of their use, emphasizing important details.*	
11–67	1944	Telephone Central Office Set TC–12—Part I—Introduction. *Shows operational features and description of the component parts.*	
11–68	1944	Telephone Central Office Set TC–12—Part II—Installation. *Shows installation, inspection, connection, and tests of switchboard BD–91.*	

FS No.	Year released	Subject	Remarks
11–82	1944	Spiral-four Carrier Telephone System. *Presents the function of the major items of equipment and operating characteristics of the system. Reference.*	
11–83	1944	Fine Grain Processing. *One of a series of film strips and photographic dark room procedure. Deals with the basic steps and processing of negatives for fine grain results, especially for use with miniature cameras. Reference.*	
12–2	1943	A Soldier's General Orders—Interior Guard Duty. *Importance of guard duty is stressed. The individual assigned to guard duty will get a better conception of his duties and all that is expected of him while walking his post. The distinction between general orders and special orders is also pointed out. Reference.*	
12–3	1943	Military Discipline and Courtesy. *Comparison of the similarities of courtesy extended both in civilian and army life, and explanation of correct manner of saluting. Reference.*	
12–4	1943	How To Wear Your Uniform. *Based upon military doctrine contained in paragraphs 1, 2, and 24 AR 600–35; paragraphs 1 through 66 AR 600–40; paragraphs 1 through 11, AR 615–40; paragraph 108, FM 21–10; paragraphs 4 through 7, FM 21–15; paragraph 56, FM 21–100; and A Manual for Courts Martial, U. S. Army Eighty-third Article of War. Contains material which will enable the student to read military subject matter of the type represented by these manuals, Army Regulations, and other military publications covering the same topics. In addition, it should help men in Special Training Units to understand and follow these practices. Reference.*	
12–5	1943	The Story of Private Pete. *Basic words that are needed for reading Parts I and II, TM 21–500, Army Reader; aims to provide sufficient repetition to assure recognition and understanding of these words. Contains basic preparatory materials essential in a reading program for non-English speaking soldiers and slow learners. Reference.*	
12–6	1943	Introduction to Numbers. *Elementary problems of addition, multiplication, division and subtraction. The charts are based on soldier vocabulary and experiences. Reference.*	
12–7	1944	Introduction to Language—Part I—Nouns. *Visual presentation of elementary vocabulary instruction in the English language dealing specifically with additional nouns. Primarily for use by Special Training Units. Reference.*	
12–8	1944	Introduction to Language—Verbs and Prepositions. *Visual presentation of elementary vocabulary in the English language dealing with verbs and prepositions. Primarily for use by Special Training Units. Reference.*	

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12–9	1944	The World. *The purpose of this film strip is to prepare soldiers in special training units to understand geographic terms and concepts which they meet in the Newsmap Supplement "Our World," and in other supplements. It will serve to extend their reading ability by improving their conception of the basic geographical terms which they will meet in discussion of the news. Reference.*	
12–100	1944	Film Strip Test, Tool Usage (Limited distribution). *Special restricted authorized AGO test. It contains 47 frames each of which shows a tool being used on an automotive part. It is a test to be used at schools and training centers to measure how much background incoming soldiers have had as automobile mechanics. It is available only for use as a testing device.*	
14–1	1944	Packing and Crating Equipment for a Finance Disbursing Section	No notes.
17–2	1941	The Thompson Submachine Gun, Cal. .45, M1928A1—Mechanical Training. *Characteristics, nomenclature, assembling and disassembling, functioning, care and cleaning, stoppages and immediate action, spare parts and accessories, safety precautions and ammunition*	Do.
17–8	1941	The Medium Tank M3—Description and Characteristics. *Capabilities, nomenclature, dimensions, armor and arament, ammunition and equipment, crew, engine, power train, suspension and tracks*	Do.
17–9	1942	The Half-Track—Description and Characteristics. *Types of bodies on half-track chassis; dimensions, armament, equipment, capabilities; engine, power train, driving system, suspension, track; uses as a prime mover*	Do.
17–10	1942	Tank Maintenance—The Tracks—Light Tank M3 and Medium Tank M3. *Track construction, adjustment, inspection, maintenance operations, breaking or reversing tracks, changing bogie wheels and volute springs; results of loose or tight tracks, careless driving, lack of preventive maintenance.*	Do.
17–15	1942	Browning Machine Gun, Cal. .50, HB, M2—Mechanical Training—Part I. *Complete description, assembly, disassembly*	Notes.
17–16	1942	Browning Machine Gun, Cal. .50, HB, M2—Mechanical Training—Part II. *Functioning, care and cleaning, stoppages, ammunition, sight, gun mounts, and safety precautions*	Do.
17–17	1942	The Truck, ¼-ton, 4 x 4—Description and Characteristics. *Body, dimensions, armament, equipment and capabilities; engine, power train, driving system, suspension, and use as a prime mover*	Do.

FS No.	Year released	Subject	Remarks
17–18	1942	37-mm Gun, Tank, M6—Part I—Disassembling and Assembling. *Nomenclature, characteristics, disassembly (field and detail) and assembly*----------	No notes.
17–19	1942	37-mm Gun, Tank, M6—Part II—Functioning, Care and Cleaning, Ammunition, Sights, Accessories, Safety Precautions.	
17–21	1943	75-mm Gun M2 and M3 (Tank)—Part I—Disassembling and Assembling. *Description and characteristics; field disassembling and assembling; detailed disassembling and assembling*----	Do.
17–23	1943	The Light Tank M5—Description and Characteristics. *Special features and characteristics which allow for high mobility, shock action, abundance of fire power, and armored protection for the crew. Covers weight and dimensions, cruising range, type of ammunition carried and principal features of construction. Reference*----------	Do.
17–24	1943	The Medium Tank M4—Description and Characteristics. *General description and characteristics, including dimensions, weight, armor and armament, capabilities, crew, engines, power train, suspension and track, hull, and common nomenclature. Reference*----------	Do.
17–25	1943	Identification of U. S. Army Armored Vehicles—Part I—Full Track Laying. *Three-quarter front view, side view, front view, rear view and top view; length, width, and height of subject vehicles. Reference*----------	Notes
17–27	1943	First Aid—Removal of Casualties from Tanks. *Emphasizes organization and duties of tank evacuation team. Demonstrates extricating appliances and shows evacuating system for tanks. Covers, in general, first echelon medical service to the casualty collecting point. Reference.*	
17–28	1943	105-mm Howitzer M2 Mounted on Self-propelled Mounts—Part I—Mechanical Training. *Description and characteristics; disassembly and assembly of breech and firing mechanism; dissassembly and assembly of howitzer from sleigh, sleigh from cradle and equilibrator from carriage. Reference.*	
17–29	1943	Arm and Hand Signals—Flag Signals—Light Signals. *Signals mounted and dismounted; signals for aiding driver in confined spaces, for control of vehicles and crews, for formations and for fire control. Reference.*	
17–30	1944	105-mm Howitzer M2 Mounted on Self-Propelled Mounts—Part II—Functioning and Lubrication. *Mechanical functioning of the firing mechanism; care and filling of the recoil mechanism; malfunctions and corrections; inspection and adjustment; lubrication. Reference.*	

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17–31	1943	Identification of U. S. Army Armored Vehicles—Part II—Half-track Laying and Wheeled. *Three-quarter front view, side view, front view, rear view and top view; length, width and height of subject vehicles. Reference.*	
17–32	1943	Cal. .45 Submachine Gun M3—Mechanical Training. *Characteristics, disassembly, assembly, functioning, care and cleaning, lubrication and safety precautions.*	
17–33	1944	Assault Gun, 75-mm Howitzer on Motor Carriage M8—Part I—Disassembly and Assembly. *Description and characteristics; detailed description of disassembly and assembly. Reference.*	
17–34	1944	Assault Gun, 75-mm Howitzer on Motor Carriage M8—Part II—Function, Lubrication, Care and Cleaning. *Reference.*	
18–2	1943	The 75-mm Gun Motor Carriage M3—Part II—Bore Sighting. *Distant aiming point method and test target method.*	
18–4	1943	Three-inch Gun Motor Carriage M10—Lubrication. *Reference to TM and OFSB lubrication schedule. Illustrates cleaning, greasing, washing, and safety precautions.*	
18–5	1943	Three-inch Gun Motor Carriage M10—Part II—First Echelon Maintenance	No notes
18–6	1943	Three-inch Gun Motor Carriage M10 and M10A1—Part V—Care and Cleaning of the Piece. *Cleaning and lubrication; disassembly and assembly routines necessary for normal care.*	Do.
18–7	1943	Three-inch Gun Motor Carriage M10—Part III—Periodic Inspections. *Weekly battery inspection, care and cleaning; 500- and 1,000-mile inspections; inspection points and procedures*	Do.
18–8	1943	Three-inch Gun Motor Carriage M10—Part I—Control and Operating Instructions. *Instrument panel, brakes, and other controls and their function; cold weather, warm weather, and emergency engine starting; operating and stopping the vehicle.*	
18–9	1944	76-mm Gun Motor Carriage T70—Part I—Description and Characteristics. *Description and performance capabilities in comparison with the 3-inch Gun Motor Carriage M10; nomenclature of turret, suspension, power plant, power train, fuel system, controls, and armament.*	
18–10	1944	Tank Destroyer Communications—Part I—Radio Procedure. *Operation of frequency modulated radios (using the SCR 610 for example); common faults and their correction; tips on getting the best results and keeping out of trouble.*	

FS No.	Year released	Subject	Remarks
18–11	1944	76-mm Gun Motor Carriage T70—Part II—Controls and Operating Instructions. *Step-by-step sequence to teach the rudiments of driving: nomenclature and location of driving controls and instruments, starting and warming-up the engine, driving instruction, towing instructions and stopping the engine.*	
18–12	1944	76-mm Gun Motor Carriage T70—Part III—Crew Maintenance. *Daily and weekly services, including points to check and inspect before starting, during warm-up, at the halt, and after operation.*	
18–13	1944	76-mm Gun Motor Carriage T–70—Part IV—Operation of the Piece. *Placing the gun in firing order; traversing; elevating and depressing; loading; firing; unloading; placing the gun in traveling order.*	
18–14	1944	76-mm Gun Motor Carriage M–18—Part V—Lubrication. *Step-by-step sequence showing the location of the lubrication points and the interval at which each is serviced.*	
18–15	1944	76-mm Gun Motor Carriage M–18—Part VI—Disassembly and Assembly of the Piece. *A step-by-step sequence showing the complete disassembly and assembly of the gun mechanism, with demonstration of the tools used.*	
18–16	1944	76-mm Gun Motor Carriage, M18—Part VII—Care, Cleaning, and Lubrication of the Piece. *Step-by-step sequence showing how to care for, clean, and lubricate the 76-mm gun, and at the same time showing the location of the individual lubrication points and the intervals at which each is serviced.*	
18–17	1944	76-mm Gun Motor Carriage, M18—Part VIII. *Shows how thorough, systematic inspections and adjustments are made on the 76-mm gun and the intervals at which each is to insure maximum performance.*	
19–1	1943	Preparing and Reading March Graphs. *Graphs with symbols denoting distance, time, halts, head and tail column, and an actual problem of moving 120 trucks in 6 march units using an SM speedometer multiplier of 3*----------	No notes.
19–2	1943	Police Riot Club. *Proper use of the military police riot club and the defenses against its use*----------	Do.
19–3	1943	The Thompson Submachine Gun—Firing. *Correct firing positions for submachine gun firing; prone, kneeling, and standing positions*----------	Do.
19–4	1944	Preparing and Reading a Circulation Map. *Demonstrates the method of preparation of a circulation map, and illustrates, step by step, the information conveyed*----------	Do.

FS No.	Year released	Subject	Remarks
19–5	1944	Signals for Traffic Control Manual. *Demonstrates the manner of executing traffic control signals under daylight and blackout conditions*_____	No notes.
19–6	1944	Military Traffic Signs. *Demonstrates the approved method of posting military traffic signs and portrays their application and use*____	Do.
20–7	1944	Office Hazards.	
20–8	1944	Good Housekeeping.	
20–9	1944	Mechanical Handling of Materials. *Proper and safe handling and stacking of materials, particularly the way in which palletized material should be handled with the fork lift and other mechanical means as well as the correct method of lifting by hand*_____	Do.
20–11	1944	Motor Vehicle Operation. *Care and regular inspection of equipment; road signs, hand signals and road courtesy, and what to do in case of accidents; parking faults and correction of skid.*	
20–12	1944	When Accidents Strike. *A short dramatization between worker and supervisor illustrates the correct procedure to be followed in case of accident. Emphasis is placed on the necessity of following the correct procedure even when the accident is very slight*_____	No notes.
30–5	1943	Identification of Japanese Uniforms, The Japanese Army (Color). *Field and tropical uniforms of Japanese officers and enlisted men; collar patches denoting rank and branch of service*_____	Do.
30–6	1944	Captured Enemy Personnel and Documents—Handling by the Captor. *Capture of prisoners; search by personnel of the capturing element; segregation of prisoners; handling of prisoners and documents prior to interrogation; rules for guarding prisoners; search of enemy dead and wounded; handling of captured deserters*_____	Do.
31–1	1944	CG–4A Glider—Part VI—75-mm Pack Howitzer. *Loading and lashing in the glider*_____	Do.
31–2	1944	Inspection of Airplanes and Parachute Personnel Prior to the Jump—Part I—Airplanes and Aerial Delivery Units_____	Do.
31–3	1944	Inspection of Airplanes and Parachute Personnel Prior to the Jump—Part II Parachute Personnel_____	Do.
31–4	1944	Repair and Maintenance of Parachutes and Related Equipment—Part I—Sewing Machines 111W151, 111W153, and 97–10. *Basic nomenclature, operation, and preventive maintenance*_____	Do.
31–5	1944	Repair and Maintenance of Parachutes and Related Equipment—Part II—Basic Seams and Stitches. *First step and one practical use of the following seams*	

FS No.	Year released	Subject	Remarks
		and stitches: superposed, lap and binding seams, edge finishing overthrow, button hole and baseball stitches	No notes.
38–2	1944	War Department Shipping Document—Part I—Preliminary Preparation. *Reference.*	
44–1	1944	The Radio Set SCR–545—Part IV—Orientation and Synchronization. *Orienting and synchronizing the set with M7 Director in azimuth, elevation, and altitude.*	
44–2	1944	Direct Fire Control for Automatic Weapons—Part IX—Computing Sights M7 and M7A1. *Aiming at aerial targets in both diving and level flight; use against ground and naval targets.*	
44–3	1944	The Radio Set SCR–584—Part V—Operational Checks. *A step-by-step procedure of the principal checks made on the set.*	
44–4	1944	The Directors M9 and M10—Part IV—Tests. *Tests made on the directors preparatory to firing.*	
44–5	1944	IFF Sets—Part I—RC–148—Description and Nomenclature. *Description of the set and its use in identifying friendly airplanes.*	
44–6	1944	IFF Sets—Part II—RC–145, Nomenclature and Description. *Shows all components of the RC–145, their function, and a brief procedure for interrogating a target.*	
44–7	1944	IFF Sets—Part III—Radio Equipment RC–184—Description and Nomencalture. *General nomenclature and description of the set with a brief summary of its operating procedure.*	
44–8	1944	The Radio Set SCR–584—Part IV, Section A—Orientation and Synchronization with the M4 and M7 Directors. *Procedure using the Back Sighting Methods.*	
44–9	1944	The Radio Set SCR–584—Part IV, Section B—Orientation and Synchronization with the M9 and M10 Directors. *Procedure using the Distant Point Method.*	
44–10	1944	Antiaircraft Artillery Guns and Accessories, 120-mm 4.7-inch Antiaircraft Gun on the M1 Mount—Part X—Tests and Adjustments. *Reviews the tests and adjustments as required by the 120-mm M1 mount.*	
104–15		Position Allocation Process.	
104–21		It's Not a Military Secret.	

(3) Foreign Versions of Film Strips. (*a*) ITALIAN (Special distribution. Content same as English version.)

ITFS No.	Year released	Subject
2–14	1944	Feeding and Watering.
2–29	1944	Packing the McClellan Saddle.
2–30	1944	Fitting and Adjusting the Phillips Pack Saddle.
3–11	1944	Hand Decontaminating Apparatus M1 and M2.
5–14	1944	How to Fire a Furnace
7–18	1944	Pitching and Striking the Pyramidal Tent.
7–19	1944	Pitching and Striking the Wall Tent.
7–20	1944	Arm and Hand Signals for Motor Transport.
8–39	1944	Heavy Tent Pitching, Hospital Tentage Ward Tent.
8–61	1944	Mess Sanitation.
8–70	1944	First Aid for Non-Combat Injuries.
10–33	1944	Automotive Electricity.
10–34	1944	Automotive Power Transmission Units.
10–35	1944	Chassis, Body and Trailer Units.
10–41	1944	The Blacksmith and the Welder.
10–44	1944	Fuels and Carburetion.
10–53	1944	First Echelon Maintenance.
10–63	1944	Engine Tune-up. Part I.
10–64	1944	Engine Tune-up. Part II.
10–65	1944	Engine Tune-up. Part III.
10–70	1944	GMC 2½-Ton, 6 x 6 Truck Power Lines, Axles.
10–71	1944	GMC 2½-Ton, 6 x 6 Truck Fuel System, Cooling Systems.
10–103	1944	Packaging and Crating of War Supplies.
10–106	1944	Refrigeration of Foods.
10–110	1944	Warehousing. Part I.
10–111	1944	Warehousing—Part II—Bins, Racks, and Box Pallets.
10–112	1944	Warehousing. Part III.
10–131	1944	The Daily Telegram.

(*b*) GERMAN (Special distribution. Content same as English version.)

GEFS No.	Year released	Subject
5–14	1944	How To Fire a Furnace.

26. RECOGNITION FILM SLIDES

a. General. (1) Film slides (2 by 2 inches) are being distributed for use in aircraft recognition courses. These film slides can be used in the standard Film Strip Projector PH–222 (the special Army Air Forces shutter equipped projector will not be issued to Army Ground Forces and Army Service Forces installations). The slides on each aircraft include silhouette slides and slides of flight views from various angles.

(2) The bases of issue are as follows:*

(*a*) Set No. 1 (U. S. Army aircraft only)—to all film libraries on the basis of one set per 3,000 men other than antiaircraft artillery.

(*b*) Set No. 2 (U. S. Army, U. S. Navy, British, Russian, German, Italian, and Japanese aircraft)—to all film libraries on a basis of one set per antiaircraft artillery battalion.

(*c*) Set No. 3 (British RAF, German, and Italian aircraft)—to film libraries at staging areas shipping to European Theater and North African Theater on a basis of one set per 3,000 men other than antiaircraft artillery.

(*d*) Set No. 4 (U. S. Navy and Japanese aircraft)—to film libraries at staging areas shipping to Alaska, Hawaii, and Southwest Pacific on the basis of one set per 3,000 men other than antiaircraft artillery.

(*e*) Set No. 1 (U. S. Armored Vehicles)—one set to film libraries for each 3,000 men other than armored force and tank destroyer units, and one set to film libraries for each armored force and tank destroyer battalion.

(*f*) Set No. 2 (British, Russian, German, Italian, and Japanese Armored Vehicles)—to film libraries, one set for 3,000 men of armored force and tank destroyer units. This applies only to the continental United States. Oversea distribution will be made on the basis of one set for each 3,000 men.

(*g*) Set No. 1 (Naval Vessel Recognition Slides)—to film libraries in the continental United States serving coast artillery harbor defense regiment of separate coast artillery battalions. Two sets to Coast Artillery School; five sets to the Coast Artillery Replacement Training Center. No distribution of this set will be made to oversea installations unless requested.

(*h*) Distribution to oversea film libraries will be made only upon request of the appropriate base, defense, or theater commanders.

(3) The individual slides contained in each of the above sets are listed below. As certain aircraft become obsolete and new aircraft make their appearance in combat areas, new listings of these slide sets will be published.

(4) Titles as listed herein will vary from the titles as given on each of the 2- by 2-inch identification slides. Complete title as included herein is not always found as such on each slide; however, correct reference is made to similar subjects so that all slides on this subject can be obtained from the reference numbers for the slides listed.

*The bases of issue do not apply to Army Air Forces units. A special type of 2 by 2 inches slide for Army Air Forces training is distributed to Army Air Forces installations upon request from the Chief, Training Aids Division, Army Air Forces, One Park Avenue, New York, N. Y.

b. Armored Vehicle Recognition Slides. (1) *Set No. 1 (U. S. armored vehicles).*

Vehicle numbers	Vehicle designation	View Numbers			
		Set No. 1	Set No. 1a	Set No. 1b	Set No. 1c
T303	Light Tank M5 and M5A1 "Gen. Stuart".	1–6	7–16	H, P, S, 17–21	
T304	76-mm Gun Motor Carriage M18 (T–70).		1–6	H, P, S, 7–10	
T306	Armored Utility Car, M20		1–9	H, P, S, 10–13	
T307	Medium Tank, M3	H,S,1–21	22–29	P	
T313	Medium Tank, M4	H,S,1–18	19–25, 27–31	P	
T314	Medium Tank, M4A1		26	H, P, S, 1–3, 8	
T319	75-mm Howitzer Motor Carriage, M8.	1–4	5–10	H, P, S, 11–13	
T320	105-mm Howitzer Motor Carriage, M8.	H, S, 1–6	7–15	P	
T321	3" Gun Motor Carriage, M10	1–4	5–10	H, P, S, 11–15	
T323	155-mm Gun Motor Carriage, M12.	1, 2	3–10	H, P, S	
T326	81-mm Mortar Motor Carriage, M4.	H, S, 1		2	
T328	Half Track Car, M2	H, S, 1–7		8, 9	
T329	Half Track Personnel Carrier, M3.	H, S, 1–6		P, 7–9	
T330	Half Track, M9A1		1–10		
T332	Mult. Gun Motor Carriage, M13+M16.	1	4–9, 14–17	H, P, S, 2–3, 10–12	
T333	Mult. Gun Motor Carriage, M15.	1–3	10–13	H,P,S,4–7	
T337	Armored Car, M8	H, 1	2–8	P, S, 9–14	
T338	Scout Car, M3A1	1–2		H,P,S,3–7	
T340	Light Tank T9E1				H,P,S,1–6
T341	Heavy Tank, M6	H, S, 1, 2			

(2) *Set No. 2 (British, Russian, German, Italian, and Japanese armored vehicles).*

Vehicle numbers	Vehicle designation	View Numbers			
		Set No. 2	Set No. 2a	Set No. 2b	Set No. 2c
	BRITISH				
T334	Armored Car T17	1–3			
T335	Armored Car T17E1 "Staghound".	1–6	7–8	H, P, S	

Vehicle numbers	Vehicle designation	View Numbers			
		Set No. 2	Set No. 2a	Set No. 2b	Set No. 2c
	BRITISH—(Continued)				
T373	A. E. C. Armored Car (Matador).		H, S	P, 1–3	
T374	Med. Tank Ram 1 (6PDR)	H, S	1–7	8	
T375	Daimler Armored Car	H, S		P, 1, 2	
T376	Med. Cruiser Tank MK VI	H, S, 1–4			
T377	Cromwell Tank (6PDR)		1–8	H, P, S	
T378	Valentine Tank (2PDR)		1–5	H,P,S,6–8	
T379	Humber Armored Car 2 (Canadian Fox).	H, S	1–8	P, 9–11	
T380	Churchill Tank MK IV (6 PDR).	H, S, 1–2	3–10	P, 11, 12	
T381	Covenanter Tank MK V	H, S			
T382	Universal Carrier (2PDR)		1–18	H, P, S	
T400	Med. Tank M3, General Lee	H, S			
T404	Self-Propelled (25 PDR)			H,P,S,1–3	
T405	Lynx Armored Car			H,P,S,1–4	
T406	Otter Armored Car			H,P,S,1–3	
T407	Self-Propelled (25 PDR)			H,P,S,1–3	
	RUSSIAN				
T386	Medium Tank T34	H, S, 1–5	6–10	P, 11	
T387	Heavy Tank KV II		H, S, 1	P, 2, 3	
T389	Heavy Tank KV 1	S, 1, 2	H, 3, 4	P, 5, 6	
T391	122 (128?)-mm SP How. (T34 Chassis).		1		
T400	T40 Light Tank			1	
T401	T60 Light Tank			1	
T402	T70 Light Tank			H, P, S, 1, 2	
T403	Armored Carrier (STZ)			H, P, S, 1	
T404	Light Cruiser Tank BT7	1, 2, 3			
	GERMAN				
T345	Armored Car SDKFZ 254	H, S			
T346	Armored Car SDKFZ 13	H, S			
T347	Armored Car SDKFZ 221	H, S			
T348	75-mm SP Gun (PzKw III Chassis).	H, S	1–4	P, 5–8	
T349	75 and 76-mm SP Gun (PzKw 38 Chassis).		1–5	H, P, S, 6–8	
T351	PzKw III Tank (Short 50-mm)	H, S, 1	2–11	P, 12–14	
T352	150-mm Howitzer Motor Carriage.	H, S, 1			
T353	8-Wheeled Armored Car	H, S, 1, 2	3–8	P, 9–12	
T354	150-mm SP How. (PzKw II Chassis).		1–3	H, P, S	
T355	Half Tracks (8-ton)		1–10	H, P, S, 11–17	

Vehicle numbers	Vehicle designation	View Numbers			
		Set No. 2	Set No. 2a	Set No. 2b	Set No. 2c
	GERMAN—(Continued)				
T356	Armored Half Tracks (3-ton)		1–9	H, P, S, 10, 11	
T357	4 Wheeled Armored Car	H, S	1–5	P, 6–9	
T359	Armored Car SDKFZ 222	H, S, 1			
T360	PzKw IV Tank (Long 75-mm)	H, S	1–6	P, 7–11	
T361	PzKw VI Tank "Tiger"		1–5	H, P, S, 6, 8, 9	
T362	6 Wheeled Med. Armored Car	H, S	1–3	P, 4, 5	
T363	German PzKw V "Panther" Tank.				H, P, S, 1–5
T364	German 88-mm SP Gun "Ferdinand".				H, P, S, 1–4
T367	PZKW II Tank	1, 2			
T368	Ex Czech Tank, PZKW 35	1			
	ITALIAN				
T396	Med. Armored Car Autoblinda 40.	H, S			
	JAPANESE				
T392	Medium Tank 2597		1, 2	H,P,S,3–5	
T394	Light Tank 2595			H,P,S,1,2	
T395	Light Armored Car 2597			H,P,S,1,2	

c. Aircraft Recognition Slides. (1) *Set No. 1 (U. S. Army Aircraft).*

Plane numbers	Plane designation	View numbers		
		Set No. 1	Set No. 1a	Set No. 1b
1	A–20 "Havoc"	H, P, S, 1–14, 16, 17	15, 18–22	23–27
2	A–30 "Baltimore"	H, P, S, 1, 2, 4		12–16
3	B–17 "Fortress"	H, P, S, 1–9	10–14	15–23
4	B–24 "Liberator"	H, P, S, 1–16	17–21	22–25
5	B–25 "Mitchell"	H, P, S, 1–7, 9–13	8, 14–18	19–25
6	B–26 "Marauder"	H, P, S, 1–13	14–19	20–26
8	C–46 "Commando"	H, P, S, 1–7	8–14	
9	C–47 "Skytrain"	H, P, S, 1–4	5–14	15–22
10	C–54 "Skymaster"	H, P, S, 1–9	10–14	
11	P–38 "Lightning"	H, P, S, 1–7	8–12	13–19
12	P–39 "Airacobra"	H, P, S, 1–11, 13	12, 14–17	
13	P–40 "Warhawk"	H, P, S, 1–6, 8, 9	7, 10–14	
14	P–47 "Thunderbolt"	H, P, S, 1–8	6, 9, 10–15	16–20
15	P–51 "Mustang"	H, P, S, 1–10	11–17	18–21
15–A	P–51B "Mustang"			H, P, S
15–B	P–51D "Mustang"			1–8

Plane numbers	Plane designation	View numbers		
		Set No. 1	Set No. 1a	Set No. 1b
28	C–69 Constellation		H, P, S, 1–4	
42	C–60 Lodestar		1	
74	A–35 Vengeance	H, P, S, 1–9	10–14	
81	L–4 Grasshopper		H, P, S, 1–3	
82	CG 4A Glider		H, P, S, 1	
83	C–78 (AT–17) Crane			3–8
98	L–5 Sentinel		H, P, S, 1–7	
120	P–61 Black Widow			H, P, S, 1–15
121	P–63 Kingcobra			H, P, S, 1–14
130	B–29 Superfortress			H, P, S, 1–13
131	A–26 Invader			H, P, S, 1–20

Note. Replacement slides for Plane No. 8 were issued to replace the original slides. Each slide is labeled "Replacement No. 1." (C–46) "Commando" H, P, S.

(2) *Set No. 2 (U. S. Army, U. S. Navy, British, German, Italian, and Japanese Aircraft).*

Plane numbers	Plane designation	View numbers		
		Set No. 2	Set No. 2a	Set No. 2b
1	A–20 "Havoc"	H, P, S, 1–14, 16, 17	15, 18–22	23–27
2	A–30 "Baltimore"	H, P, S, 1, 2, 4	3, 5–11	12–16
3	B–17 "Fortress"	H, P, S, 1–9	10–14	15–23
4	B–24 "Liberator"	H, P, S, 1–16	17–21	22–25
5	B–25 "Mitchell"	H, P, S, 1–7, 9–13	8, 14–18	19–25
6	B–26 "Marauder"	H, P, S, 1–13	14–19	20–26
7	B–34 "Ventura"	H, P, S, 1–9	10–13	
8	C–46 "Commando"	H, P, S, 1–7	8–14	
9	C–47 (DC–3) "Skytrain"	H, P, S, 1–4	5–14	15–22
10	C–54 (DC–4) "Skymaster"	H, P, S, 1–9	10–14	
11	P–38 "Lightning"	H, P, S, 1–7	8–12	13–19
12	P–39 "Airacobra"	H, P, S, 1–11, 13	12, 14–17	
13	P–40 "Warhawk"	H, P, S, 1–6, 8, 9	7, 10–14	
14	P–47 "Thunderbolt"	H, P, S, 1–5, 7, 8	6, 9–15	16–20
15	P–51 "Mustang"	H, P, S, 1–10	11–17	18–21
16	F4F "Wildcat"	H, P, S, 1–9	10–18	
17	F4U "Corsair"	H, P, S, 1–5	6–18	
18	OS2U "Kingfisher"	H, P, S, 1–6	7–9	
19	PBM "Mariner"	H, P, S, 1–6	7–13	
20	PBY "Catalina"	H, P, S, 1–7	8–12	13–16
21	PB2Y "Coronado"	H, P, S, 1–6	7–9	
22	SBD "Dauntless"	H, P, S, 1–8	9–14	
23	SB2A "Buccaneer"	H, P, S, 2–4		
24	SB2C "Helldiver"	H, P, S, 1–5	6, 7, 8–22	
25	SB2U "Vindicator"	H, P, S, 1–5		

Plane numbers	Plane designation	View numbers		
		Set No. 2	Set No. 2a	Set No. 2b
26	SO3C "Seagull"	H, P, S, 1, 3–7, 9–12	2, 8	
27	TBF "Avenger"	H, P, S, 1–7.	8–13	
28	C–69 Constellation		H, P, S, 1–4	
29	"Beaufighter"	H, P, S, 1–13	14–21	22–28
30	"Blenheim"	H, P, S, 1–6, 8	7, 9–14	
30A	Blenheim V		H, P, S, 1–4	5
31	"Halifax"	H, P, S, 1–5	6–12	13,14
31A	Halifax II			H, P, S, 1–3
32	"Hurricane"	H, P, S, 1–3, 5–9, 11	4, 10, 12–14	15–19
33	"Lancaster"	H, P, S, 1–7	8–13	14–23
33A	Lancaster II			H, P, S, 1
34	"Mosquito"	H, P, S, 1–6	7–17	18–21
35	"Spitfire"	H, P, S, 1–7	8–17	18–24
35A	Spitfire IX		H, P, S, 1, 2	
35B	Spitfire XII (Clipped Wing)			H, P, S, 1–6
36	"Stirling"	H, P, S, 1–6, 8	7, 9–12	13–19
37	"Sunderland"	H, P, S, 1–5	6–12	
38	"Wellington"	H, P, S, 1–4	5–10	11–18
39	Arado 196	H, P, S, 1–3	4–9	
40	Blohm Voss 138	H, P, S, 1–3		
41	"Tony" Type 3SSF		1–4	H, P, S, 5
42	C–60 Lodestar		1	
43	Dornier 26	H, P, S, 1–5		
44	Dornier 217	H, P, S, 1–8	9–18	19–25
44A	Dornier 217J			H, P, S
44B	Dornier 217M			H, P, S
45	Focke-Wulf 190	H, P, S, 1–5, 7	6, 8–17	18–33
45A	Focke-Wulf 190 (DB 603)			H, P, S
46	Focke-Wulf 200	H, P, S, 1–3	4–9	
47	Heinkel 111	H, P, S, 1–4, 6–8	5, 9–15	
48	Heinkel 115		H, P, S, 1–4	
49	Heinkel 117	H, P, S, 1–3		4–10
50	Junkers 52	H, P, S, 1, 2, 4	3, 5–11	12–15
51	Messerschmitt 323		H, P, S	
52	Junkers 87 "Stuka"	H, P, S, 1, 2, 4	3, 5–15	16–20
53	Junkers 88	H, P, S, 1–5	6–19	20–30
54	Junkers 88		H, P, S, 1–4	
55	Junkers 90		H, P, S, 1, 2	
56	Junkers 290		H, P, S	
57	Messerschmitt 109	H, P, S, 1–5	6–18	19–23
58	Messerschmitt 110	H, P, S, 1–5, 7	6, 8–22	23–26
59	Macchi 202	H, P, S, 1–5		
60	"Rufe"		H, P, S, 1	
61	Reggiani 2001	H, P, S		
62	TB–7		H, P, S	

Plane numbers	Plane designation	View numbers		
		Set No. 2	Set No. 2a	Set No. 2b
63	Savoia Marchetti 79	H, P, S, 1–3		
64	"Savoia" Marchetti 84	H, P, S		
65	"Zeke"	H, P, S, 1–4, 6–14	5, 15–20	
66	"Sally"	H, P, S, 1–12, 14	13, 15, 16–21	22
67	"Betty"	H, P, S	1–9	
68	"Val"	H, P, S	1–15	
69	Focke-Wulf 189	H, P, S	1–4	
70	Henschel 126	H, P, S	1–3	
71	Dornier 18	H, P, S		
72	"Beaufort"	H, P, S, 1–3, 5	4, 6–10	
73	Typhoon	H, P, S, 1–3	4–14	15–20
74	A–35 Vengeance	H, P, S, 1–9		
75	Messerschmitt 210	H, P, S, 1–3	4–10	11–21
76	Hampden	H, P, S	1–4	
77	Whitley	H, P, S	1–3	4–7
78	Cantiere 506	H, P, S		
79	Cantiere Z–1007	H, P, S		
80	Macchi 200	H, P, S		
81	L–4 Grasshopper		H, P, S, 1–3	
82	CG4A Glider		H, P, S, 1	
83	C–78 (AT–17) Crane			3–8
84	"Nell"		H, P, S, 1–7	
85	"Nate"		H, P, S, 1, 2	
86	"Kate"		H, P, S, 1–10	
87	"Mavis"		H, P, S, 1–6	
88	"Pete"		H, P, S, 1	
89	MIG–3		H, P, S, 1–3	
90	YAK–4		H, P, S	
91	YAK–1		H, P, S	
92	PE–2		H, P, S, 1–5	
93	DB–3		H, P, S, 1–3	
94	SB–3		H, P, S, 1, 2	
95	SU–2		H, P, S, 1	
96	MBR–2		H, P, S	
97	IL–2 "Stormovik"		H, P, S, 1–5	
98	L–5 "Sentinel"		H, P, S, 1–7	
106	"Hap"		H, P, S, 1–14	15–21
107	"Oscar"		H, P, S, 1–7	H, P S, 8, 9,
107A	"Oscar"			H, P, S
108	"Sonia"		H, P, S, 1	2–12
109	"Lilly"		H, P, S, 1–8	
111	Henschel 129		H, P, S, 1–5	
112	DFS–230		H, P, S, 1	2–7
113	Gotha 242		H, P, S	1–7
114	F6F "Hellcat"		H, P, S, 1–12	
116	DB–3F		H, P, S, 1	

Plane numbers	Plane designation	View numbers		
		Set No. 2	Set No. 2a	Set No. 2b
117	Barracuda		1–5	H, P, S, 6–8
118	Albermarle			H, P, S, 1–9
119	York			H, P, S, 1–13
120	P–61 Black Widow			H, P, S, 1–15
121	P–63 Kingcobra			H, P, S, 1–14
122	"Tojo"			H, P, S
123	"Jake"			H, P, S
124	"Nick"			H, P, S
125	"Dinah"			H, P, S
126	"Helen"			H, P, S
127	"Emily"			H, P, S
128	Boomerang			H, P, S
129	Junkers 188			H, P, S
130	B–29 "Superfortress"			H, P, S, 1–13
131	A–26 "Invader"			H, P, S, 1–20
132	Horsa Glider			H, P, S, 1–7
133	Fieseler 156 "Storch"			H, P, S, 1–16
134	"Topsy"			H, P, S, 1, 2
135	"Judy"			H, P, S
136	"Liz"			H, P, S
137	"Cherry"			H, P, S
A–22	2–Ju 87's			
A–23	5–TBF Avengers			
A–24	2–PBY Catalinas			
A–25	3–PBY Catalinas			
A–26	9–PBY Catalinas			
A–30	3–SB2U Vindicators			
A–31	3–SB2U Vindicators			
A–32	3–SB2U Vindicators			
A–33	12–P–40 Warhawks			
A–37	6–B–47 Thunderbolts			
A–38	4 SBD Dauntlesses			
A–40	3–Stirlings			
A–43	3–Ju 52's			
C–1	12–Planes			

Note. Replacement slides for Planes Nos. 8, 34, 52, and 67 were issued to replace the original slides. Each slide is labeled "Replacement No. 1."

C–46 "Commando" H, P, S.
"Mosquito" H, P, S.
Junkers 87 "Stuka" H, P, S.
"Betty" H, P, S.

(3) *Set No. 3 (British, German, and Italian aircraft).*

Plane numbers	Plane designation	View numbers		
		Set No. 3	Set No. 3a	Set No. 3b
2	A–30 "Baltimore"		3, 5–11	
29	"Beaufighter"	H, P, S, 1–13	14–21	22–28
30	"Blenheim"	H, P, S, 1–6, 8	7, 9–14	
30A	Blenheim V		H, P, S, 1–4	5
31	"Halifax"	H, P, S, 1–5	6, 7–12	13, 14
31A	Halifax II			H, P, S, 1–3
32	"Hurricane"	H, P, S, 1–3, 5–9, 11	4, 10, 12–14	15–19
33	"Lancaster"	H, P, S, 1–7	8–13	14–23
33A	"Lancaster II"			H, P, S, 1
34	"Mosquito"	H, P, S, 1–6	7–17	18–21
35	"Spitfire"	H, P, S, 1–7	8–17	18–24
35A	Spitfire IX		H, P, S, 1, 2	
35B	Spitfire XII (Clipped Wing)			H, P, S, 1–6
36	"Stirling"	H, P, S, 1–6, 8	7, 9–12	13–19
37	"Sunderland"	H, P, S, 1–5	6–12	
38	"Wellington"	H, P, S, 1–4	5–10	11–18
39	Arado 196	H, P, S, 1, 2, 3	4–9	
40	Blohm & Voss 138	H, P, S, 1, 2, 3		
43	Dornier	H, P, S, 1–8		
44	Dornier 217	H, P, S, 1–8	9–18	19–25
44A	Dornier 217J			H, P, S
44B	Dornier 217M			H, P, S
45	Focke-Wulf 190	H, P, S, 1–5, 7	6, 8–17	18–33
45A	Focke-Wulf 190 (DB–603)			H, P, S
46	Focke-Wulf 200	H, P, S, 1, 2, 3	4–9	
47	Heinkel 111	H, P, S, 1–4, 6–8	5, 9–15	
48	Heinkel 115		H, P, S, 1–4	
49	Heinkel 177	H, P, S, 1–3		4–10
50	Junkers 52	H, P, S, 1, 2, 4	3, 5–11	12–15
51	Messerschmitt 323		H, P, S	
52	Junkers 87 "Stuka"	H, P, S, 1, 2, 4	3, 5–11	16–20
53	Junkers 88	H, P, S, 1–5	6–19	20–30
55	Junkers 90		H, P, S, 1–2	
56	Junkers 290		H, P, S	
57	Messerschmitt 109	H, P, S, 1–5	6–18	19–23
58	Messerschmitt 110	H, P, S, 1–5, 7	6, 8–22	23–26
59	Macchi 202	H, P, S, 1–5		
61	Reggiani 2001	H, P, S		
63	Savoia Marchette 79	H, P, S, 1–3		
64	Savoia Marchette 84	H, P, S		
69	Focke-Wulf 189	H, P, S	1–4	
70	Henschel 126	H, P, S	1, 2, 3	
72	"Beaufort"	H, P, S, 1–3, 5	4, 6–10	
73	Typhoon	H, P, S, 1–3	4–14	16–20
75	Messerschmitt 210	H, P, S, 1–3	4–10	11–21
76	Hampden	H, P, S	1–4	

Plane numbers	Plane designation	View numbers		
		Set No. 3	Set No. 3a	Set No. 3b
77	Whitley	H, P, S	1–3	4–7
78	Cantiere 506	H, P, S		
79	Cant Z 1007	H, P, S		
80	Macchi 200	H, P, S		
111	Henschel 129		H, P, S, 1–5	
112	DFS 230		H, P, S, 1	2–7
113	Gotha 242		H, P, S	1–7
117	Barracuda		1–5	H,P,S,6–8
118	Albemarle			H,P,S,1–9
119	York			H, P, S, 1–13
128	Bomerang			H, P, S
129	Junkers 188			H, P, S
132	Horsa			H,P,S,1–7
133	Fieseler 156 "Storch"			H, P, S, 1–16

Note. Replacement slides for Planes Nos. 34 and 52 were issued to replace the original slides. Each slide is labeled "Replacement No. 1."
"Mosquito" H, P, S.
Junkers 87 "Stuka" H, P, S.

(4) *Set No. 4 (U. S. Navy and Japanese aircraft only).*

Plane numbers	Plane designation	View numbers		
		Set No. 4	Set No. 4a	Set No. 4b
7	B–34 "Ventura"	H, P, S, 1–9	10–13	
16	F4F "Wildcat"	H, P, S, 1–9	10–18	
17	F4U "Corsair"	H, P, S, 1–5	6–18	
18	OS2U "Kingfisher"	H, P, S, 1–6	7–9	
19	PBM "Mariner"	H, P, S, 1–6	7–13	
20	PBY "Catalina"	H, P, S, 1–7	8–12	13–16
21	PB2Y "Coronado"	H, P, S, 1–6	7–9	
22	SBD "Dauntless"	H, P, S, 1–8	9–14	
23	SB2A "Buccaneer"	H, P, S, 2–4		
24	SB2C "Helldiver"	1–5	6–22	
25	SB2U "Vindicator"	H, P, S, 1–5		
26	SO3C "Seagull"	H, P, S, 1, 3–7, 9–12	2, 8	
27	TBF "Avenger"	H, P, S, 1–7	8–13	
41	"Tony"	1–4	H, P, S, 5	
60	"Rufe"	H, P, S, 1		
65	"Zeke"	H, P, S, 1–4, 6–14	5, 15–20	
66	"Sally"	H, P, S, 1–12, 14	13, 15, 16	22
67	"Betty"	H, P, S	1, 2, 3	
68	"Val"	H, P, S	1–10	
84	"Nell"		H, P, S, 1, 2	
85	"Nate"		H, P, S	
86	"Kate"		H, P, S, 1–8	H, P, S (Revision #1)

Plane numbers	Plane designation	View numbers		
		Set No. 4	Set No. 4a	Set No. 4b
87	"Mavis"		H, P, S, 1	
88	"Pete"		H, P, S, 1	
106	"Hamp"		H, P, S, 1–9	15–21
107	"Oscar"		H, P, S, 1	H, P, S (Revision #1) 8, 9
107A	"Oscar" Mk 2			H, P, S
108	"Sonia"		H, P, S, 1	2–12
109	"Lily"		H, P, S, 1, 2, 3	
114	F6F "Hellcat"		H, P, S, 1–7	
122	"Tojo"			H, P, S
123	"Jake"			H, P, S
124	"Nick"			H, P, S
125	"Dinah"			H, P, S
126	"Helen"			H, P, S
127	"Emily"			H, P, S
134	"Topsy"			H,P,S,1,2
135	"Judy"			H, P, S
136	"Liz"			H, P, S
137	"Cherry"			H, P, S

Note. Replacement slides for Plane No. 67 were issued to replace the original slides. Each slide is labeled "Replacement No. 1." "Betty" Type 1 MB H, P, S.

d. Catalog of Naval Vessel Recognition Slides (*Set No. 1*). (*United States, British, German, Italian, and Japanese.*)

Vessel number	Vessel designation	View number Set No. 1
S600	New York Class U. S. BB Texas BB 35	1–5
S601	Arkansas U. S. BB Arkansas BB 33	1–4
S602	Pennsylvania U. S. BB Pennsylvania BB 38	1–4
S603	Nevada U. S. BB Nevada 36	1–4
S604	New Mexico Class U. S. BB New Mexico BB 40	1–6
S605	North Carolina Class U. S. BB North Carolina BB 55	1–6
S606	South Dakota Class U. S. BB South Dakota BB 57	1–4
S607	Colorado Class U. S. BB Colorado BB 45	1–3
S608	Portland Class U. S. CA Portland CA 33	1–5
S609	New Orleans Class U. S. CA New Orleans CA 32	1–2
S610	Northampton Class U. S. CA Louisville CA 28	1–4
S611	Cleveland Class U. S. CL	1–7
S612	Omaha Class U. S. CL Richmond CL 9	1–4
S613	St. Louis Class U. S. CL Helena CL 50	1–2
S614	Atlanta Class U. S. CL	1–4
S615	Ranger U. S. CV Ranger CV 4	1–5
S616	Independence Class U. S. CV Independence CV 22	1–9
S617	Saratoga U. S. CV Saratoga CV 3	1–6
S618	Enterprise U. S. CV Enterprise CV 6	1–3
S619	Essex Class U. S. CV Essex CV 9	1–9
S620	Sangamon Class U. S. ACV Sangamon ACV 26	1–6

Vessel number	Vessel designation	View number Set No. 1
S621	Charger Class U. S. ACV Charger ACV 30	1–4
S622	Long Island Class U. S. ACV Long Island ACV1	1–3
S623	Bogue Class U. S. ACV Bogue ACV9	1–9
S624	Brooklyn Class U. S. CL	1–3
S625	Gridley Class U. S. DD	1–4
S626	Fletcher Class U. S.DD	1–8
S627	1917–18 Class U. S. DD Breckinridge DD 148	1–9
S628	Mahan Class U. S. DD Flusser DD 268	1–3
S629	Farragut Class U. S. DD Dewey DD 349	1–3
S630	Benson Class U. S. DD	1–9
S631	Dunlap Class U. S. DD Fanning DD 385	1–3
S632	Benham Class U. S. DD Mayrant DD 402	1–6
S633	Bagley Class U. S. DD	1–5
S634	Sims Class U. S. DD Roe DD 418	1–2
S635	Livermore Class U. S. DD Ingraham DD 444	1–4
S636	Porter Class U. S. DD	1–3
S637	165 Ft. Class Cutter U. S. CGC Mohawk USCG 78	1–3
S638	240 Ft. Class Cutters U. S. CGC Tampa USCG 48	1
S639	327 Ft. Class Cutters U. S. CGC Spencer USCG	1–3
S640	DE–1 Class U. S. DEDE–1	1–3
S641	King George V Class Gr. Br. HMS Anson BB 16	1–2
S642	Malaya Gr. Br. BB	1–3
S643	Royal Sovereign Class Gr. Br. BB HMS Resolution BB 4	1–3
S644	Hawkins Class Gr. Br. CA	1–4
S645	Devonshire Class Gr. Br. CA HMS Devonshire CA 10	1–3
S646	Norfolk Class Gr. Br. CA H. M. S. Norfolk CA 14	1
S647	Kent Class Gr. Br. CA	1–5
S648	Caledon Class Gr. Br. CL H. M. S. Caradoc CL 4	1
S649	Dido Class Gr. Br. CL H. M. S. Euryalus CL 50	1–8
S650	Leander Class Gr. Br. CL H. M. S. Orion CL 21	1–3
S651	Dragon Class Gr. Br. CL H. M. S. Dauntless CL 11	1–6
S652	Fiji Class Gr. Br. CL	1–7
S653	Southampton Class Gr. Br. CL H. M. S. Glasgow CL 35	1–3
S654	Arethusa Class Gr. Br. CL H. M. S. Penelope CL 31	1–3
S655	Archer Class Gr. Br. ACV	1–3
S656	Battler Class Gr. Br. ACV H. M. S. Trailer ACV 8	1
S657	"A" Class Gr. Br. DD H. M. S. Achates DD 135	1
S658	"R" Class Gr. Br. DD H. M. S. Havelock DD 204	1
S659	Town Class Gr. Br. DD H. M. S. Churchill DD 48	1–6
S660	"I" Class Gr. Br. DD	1–2
S661	"J" Class Gr. Br. DD	1–2
S662	"N" Class Gr. Br. DD H. M. S. Nepal DD 273	1
S663	"O" Class Gr. Br. DD	1–4
S664	Tribal Class Gr. Br. DD H. M. S. Tartar DD 230	1–3
S665	Furious Gr. Br. CV H. M. S. Furious CV 3	1–3
S666	"Flower" Class Corvette Gr. Br. PG H. M. S. Celandine	1–3
S667	"Captain" Class Corvette Gr. Br. DE H. M. S. Bayntun	1–3
S668	Scharnhorst Ger. BB	1
S669	Gneisenau Ger. BB	1
S670	Tirpitz Ger. BB	1–3
S672	Luetzow Ger. CA	1–4
S673	Admiral Scheer Ger. CA	1–3

Vessel number	Vessel designation	View number Set No. 1
S674	Admiral Hipper Ger. CA	1
S675	Emden Ger. CL	1
S676	Leipzig Ger. CL	1
S677	Nuernberg Ger. CL	1–3
S678	Koein Ger. CL	1
S679	Friesenland Ger. CVS	1
S681	Narvik Class Ger. DD	1
S682	Maasz Class Ger. DD Theodor Riedel DD	1
S683	Roeder Class Ger. DD Carl Galster DD 20	1
S687	Litterolo Class It. BB	1–3
S688	Doria Class It. BB	1
S689	Cavour Class It. BB	1–3
S690	Gorizia It. CA	1
S693	Garibaldi Class It. CL	1
S694	Montecuccoll Class It. CL	1–2
S695	Avero Class It. DD	1–3
S696	Navigatori Class It. DD	1
S697	Fuso Class Jap BB	1–2
S698	Kongo Class Jap BB	1–3
S699	Yamashiro Jap BB	1–2
S700	Nagato Class Jap BB Mutsu BB 10	1–2
S701	Ise Class Jap BB	1–2
S702	Tone Class Jap CA	1–2
S703	Aoba Class Jap CA	1–2
S704	Mogami Class Jap CA	1–3
S705	Atago Class Jap CA	1–3
S706	Nachi Class Jap CA	1–3
S707	Kuma Class Jap CL	1–2
S708	Yubari Jap CL	1
S709	Nateri Class Jap CL	1–3
S710	Sendai Class Jap CL	1–2
S711	Hosho Jap CV	1–2
S712	Shokaku Class Jap CV	1
S713	Ryujo Jap CV	1–2
S714	Hatsuharu Class Jap DD Yugure DD 65	1
S715	Fubuki Class Habiki Group Jap DD	1–3
S716	Fubuki Class Shinonome Group Jap DD	1
S717	Fubuki Class Amagiri Group Jap DD	1–3
S718	Momi Class Jap DD	1
S720	Un-One Class Jap DD	1
S721	Asahio Class Jap DD	1
S722	Shigure Class Jap DD	1
S723	Kamikaze Class Jap DD	1
S724	Mutsuki Class Jap DD	1–2
S725	Renown Gr. Br. BB	1
S726	Nelson Class Gr. Br. BB	1
S727	Queen Elizabeth Class Gr. Br. BB Valiant	1
S728	Warspite Gr. Br. BB	1
S729	"F" Class Gr. Br. DD	1
S730	Hunt Class Gr. Br. DD	1
S731	"K" Class Gr. Br. DD	1
S733	Illustrious Class Gr. Br. CV	1–2

27. PHONOGRAPH RECORDS SET—SECURITY VIOLATIONS

a. Description. This set consists of three double faced 12-inch 78 rpm phonograph records containing six separate 5-minute dramatized incidents of Radio Transmission Security Violations.

b. Purpose. To present important aspects of the subject of Radio Transmission Security in a manner that will impress all communications personnel with the unfortunate and sometimes tragic consequences of security violations.

c. Use. The records can be played in lecture rooms and halls on any ordinary phonograph or record player. It is not intended that the six recordings be played all at one time, but rather that one of the incidents be presented each day or two during regular code practice or radio procedure periods. The recorded incidents can be very effectively presented by being played over the headphone circuits of code practice tables.

d. Distribution. To interested units upon request.

e. List of Titles.

(1) Ex-Sergeant.
(2) Hawaiian Islands.
(3) West Coast Air Base.
(4) Bombing Mission.
(5) South Sea Island.
(6) Secret Flight.

SUBJECT INDEX OF FILMS AND FILM STRIPS

Subject	Classification	Film Number
Abandon ship, procedures, precautions, and safety measures	TF	21–1244
AC mechanical fuel pumps. (*See* Pumps, Fuel.)		
Aerial bombs. (*See* Bombs, Aerial.)		
Aerial cableways, construction	FS	7–140
Aerial delivery units, inspection	FS	31–2
Aerial navigation. (*See* Navigation, Aerial.)		
Aerial photographs. (*See* Photography.)		
Aerodynamics of gliders	FS	1–91
Air compressor and air tools. (*See* Tools, Pneumatic.)		
Air defense team:		
Controlled interception, day methods	TF	1–862
Fighter searchlight units, antiaircraft, and shortrange warning system, night interception	TF	1–865
Intercept board operations, navigating day fighters to an interception	TF	1–864
Night fighters, function of antiaircraft artillery units	TF	1–867
Orientation, overall	TF	1–861
Very high frequency radio communications, position-fixing and homing	TF	1–863
Airborne:		
Airlanded units:		
C–47 airplane, loading equipment	FS	7–79
	FB	35
37-mm antitank gun	FS	7–80
75-mm pack howitzer	FS	7–81
1-ton trailer	FS	7–82
Employment:		
Air operations, Lae and Salamaua	Misc.	1044
Troop carrier maneuvers	FB	106
Engineers:		
Demolition equipment	FB	79
Invasion equipment and weapons	FB	75
Glider-borne units:		
Basic troop training:		
Flight training	TF	31–1255
Knots and lashings, types and uses	TF	31–1253
CG–4A glider:		
Description of interior	FS	7–92
Loading and lashing equipment	TF	31–1254
37-mm antitank gun	FS	7–126
75-mm pack howitzer	FS	31–1
Supplies and light cargo	FS	7–93
Trailer, ¼-ton	FS	7–116
Truck, ¼-ton	FS	1–323
	FS	7–113

Subject	Classification	Film Number
Airborne—*Continued*		
Glider-borne units—*Continued*		
CG–4A glider—*Continued*		
Maintenance:		
Daily inspection	FS	1–320
Fabric covers	FS	1–277
Preflight inspection	FS	1–273
Glider training:		
Aerodynamics	FS	1–91
Airwork	FS	1–143
Approaches and landings	FS	1–95
Care of equipment	FS	1–92
Launching equipment and take-offs	FS	1–94
Soaring technique, ridge soaring	FS	1–146
Tactical use	TF	1–3361
Tow ropes and cables	FS	1–93
Types of gliders; instruments used	FS	1–90
Parachute units.		
Employment:		
Parachute regiment	FB	20
These are the parachutists	Misc.	924
Parachutes:		
Construction and types	FS	1–46
	TF	1–536
Fitting and adjusting harness	FS	1–158
Folding and packing	FS	1–49
	TF	1–750
Repair and maintenance:		
Cleaning, storage and shipment	FS	1–174
Inspection	FS	1–56
Overhaul and testing	FS	1–341
Seams and stitches	FS	31–5
Sewing machines	FS	31–4
Parachutists:		
German:		
Mission to capture a Dutch bridge	Misc.	912
Recognition of	TF	7–637
Training methods	TF	7–151
Inspection prior to the jump:		
Airplanes and aerial delivery units	FS	31–2
Parachute personnel	FS	31–3
Jump training	TF	31–1231
	FB	32
Ski training	FB	24
Supplies, packing, loading, and delivering	TF	31–1302
Aircraft engines. (*See* Engines, Aircraft.)		
Aircraft guns. (*See* Guns, Aircraft.)		
Aircraft hoisting	TF	1–3359
Aircraft identification. (*See* Recognition and identification of aircraft.)		
Aircraft ignition systems. (*See* Ignition systems, Aircraft.)		
Aircraft inspection. (*See* Inspection, Aircraft.)		

Subject	Classification	Film Number
Aircraft recognition. (*See* Recognition and identification of aircraft.)		
Airdromes:		
Camouflage	TF	1–724
Field, site selection and lay-out	FS	5–48
Air-ground visual communications. (*See* Communications, Visual airground.)		
Airplane spray tanks. (*See* Spray tanks, Airplane.)		
Alaska highway, construction methods and procedures	Misc.	959
	FB	37
Aleutians, U. S. attacks, details of mission	FB	45
All American, AAF combat camera units	WF	11
Allotments, class B, for the Army	FB	89
Alphabet, phonetic, and pronunciation of numerals	SFS	11–28
Alternating current, principles	FS	1–86
Ambulances:		
Conversion of common military vehicles	FS	8–77
Cross country, ¾-ton 4 x 4, loading and unloading	FS	8–78
Ammunition:		
4.2 inch chemical mortar, description	FS	3–19
37-mm gun, tank M6, description	FS	17–19
155-mm gun		
M1, description and loading	TF	6–1075
Preparation for firing	TF	4–1008
Antiaircraft artillery:		
37-mm and 40-mm, description	FS	4–203
90-mm and 120-mm 4.7 inch, description	FS	4–204
General handling and description of cal. .50 ammunition	FS	4–149
Loading, assembling, and packing for 3-inch gun	TF	9–114
Coast artillery:		
Boosters and fuses, types, purpose and action	FS	4–47
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Prophylaxis and therapy:		
Lung irritants	FS	8–65
Miscellaneous agents	FS	8–68
Vesicants	FS	8–66
	FS	8–67
Combat, first aid	FS	8–69
Non-combat, first aid	TF	8–2049
	FS	8–70
Insect-borne diseases. (*See* Diseases, Insect-borne.)		

Subject	Classification	Film Number
Inspection, preflight, B–17E, duties of radio mechanic	TF	1–533
Instruction of the soldier:		
Bivouac procedure under varied climate and terrain, security precautions	TF	7–2051
Dismounted without arms:		
Positions and facings	TF	7–248
Steps and marchings	TF	7–249
Manual of arms, nomenclature for drill:		
Movements from Order Arms	TF	7–560
Movements from Port Arms and other movements	TF	7–561
Instruments:		
Azimuth, fire control and position finding, seacoast artillery	FS	4–63
Field artillery, preparation of fire:		
Construction and function of instruments	TF	6–112
Mil relation definition and elementary application	TF	6–111
Measuring:		
Manometer, general principles	TF	9–1316
Micrometer, use and care	TF	25–347
	FS	10–91
Military optical:		
Observation and measuring instruments, principles of operation and use	TF	9–1122
Principles	TF	9–1167
Sighting, principles of operation and use	TF	9–1168
Orientation, purpose and use	FS	4–34
Seacoast artillery:		
Orientation, auxiliaries, description and use	FS	4–197
Transit, description and operation	FS	4–192
Intelligence, military. (*See* Military intelligence.)		
Intelligence, photographic, in bombardment aviation	TF	1–3306
Interception, air defense team:		
Controlled interception	TF	1–862
Intercept board operations, navigating day fighters to an interception	TF	1–864
Internal combustion engines. (*See* Engines, Internal combustion.)		
Internal security:		
Administration of military justice and courts martial	TF	15–992
Guarding against sabotage	TF	19–2032
Interior guard duty:		
General orders	FS	12–2
The sentinel	TF	7–2023
Interrogation of enemy airmen	TF	1–3326
Interrogation of prisoners, aviation	TF	11–225
	TF	30–1334
Intravenous solutions, preparation and administration	FS	8–42
Introduction to the army, induction, processing, and basic training	TF	21–2067
Invasion equipment, airborne engineers	FB	75
Invasion in the making, amphibious operations	FB	65
Invasion of Crete by the German Army	FB	16

Subject	Classification	Film Number
Invasion of Poland in 1939 by the German Army	FB	48
Italian mines. (*See* Mines, Italian.)		
Italian Version Films. (*See* Numerical Index.)		
It's not a military secret, wage administration plan for ungraded civilian jobs	FS	104-21
It's our job, war time activities of civilian personnel	Misc.	1015
It's your war too (WAC)	Misc.	958
Japanese grenades and mines	FB	126
Japanese language films:		
Atarashi Kazoku	MIS	1013
Earth and soldier	MIS	1043
Mother	MIS	1051
Prayer at dawn	MIS	585
Vow in the desert	MIS	526
Japanese log pill boxes vs. firepower, selection of effective weapons	FB	122
Japanese matériel, small arms, identification	FS	9-202
	FS	9-203
Japanese soldier	SFS	30-1
Japanese uniforms, identification, the Japanese army	FS	30-5
Japanese weapons. (*See* Weapons.)		
Job supervision:		
Job instructor training:		
Cost of an error	SFS	80-2
Four steps	SFS	80-5
Job break-down	SFS	80-4
Kinda give it your personal attention	SFS	80-7
Spotting immediate training needs	SFS	80-3
Jump training, parachute	TF	31-1231
Jungle warfare:		
Battle of Buna, methods used to overcome obstacles and hardships	FB	66
Clothing and equipment, care and use	FS	10-149
Dry run in Panama	FB	103
New Guinea, obstacles and limitations	FB	43
Personal health	TF	8-2057
Keep it clean—soldier's rifle, importance of, and methods	TF	21-1018
Keyways, cutting:		
On a finished shaft	TF	25-624
On the milling machine	TF	25-339
Kidneys, structure and functioning	TF	8-1392
Kill or be killed, individual tactics in close combat	TF	21-1024
Kitchens:		
Field, semi-permanent, selection of site, and operation	FS	10-98
Mobile:		
Description, transportation and operation	FS	10-100
Use and operation in combat zone	TF	10-1215
Railway, equipment and messing procedure	FS	10-96
Knots and bends, pioneer equipment, description, types, and uses	TF	5-203

Subject	Classification	Film Number
Knots and lashings, types and uses, basic training of glider-borne troops	TF	31–1253
Know for sure, hygiene (WAC)	Misc.	1003
Know your ally, Britain	OF	16
Labor greets General Somervell	FB	25
Lae and Salamaua, air operations, skip bomb and delayed bomb operations	Misc.	1044
Land and live in the jungle	TF	1–3347
Landing operations of First Division in North Carolina	FB	9
Language, introduction:		
Nouns	FS	12–7
Verbs and prepositions	FS	12–8
Latin American officers visit Edgewood Arsenal	FB	32
Latrine screen, pitching and striking	FS	7–22
Latrinograms	TF	21–1027
Launcher, rocket, antitank, 2.36:		
M1, disassembly and assembly	FS	9–141
M1A1:		
Characteristics, description, and maintenance	FS	7–148
Operation, immediate action, and safety precautions	FS	7–149
Laundries, mobile, Quartermaster:		
Operation	TF	10–1171
	FB	26
Setting up the equipment	TF	10–1170
Leadership for fighting men, by your command	TF	21–2056
Lensatic compass, use	FS	2–22
Lethal devices, barrage balloons:		
Low altitude:		
Operation of Mark II and Mark VI links, rigging and packing parachutes	FS	4–42
Very low altitude:		
Bomb and parachute arming	FS	4–147
Double parachute arming	FS	4–175
Function when flying wire assembly is struck by plane	TF	4–1214
Liberation of Rome	CR	1
Life aboard troopship	TF	55–1287
Life saving, elementary tactics	TF	21–1121
Lifeline, supplying combat areas	WF	10
Line route maps, wire circuits	FS	11–52
Linear speed method theory, fire control and position finding, antiaircraft artillery	FS	4–24
Lineman's equipment, construction and repair of telephones	TF	11–590
Loading and unloading poles from flatcar or trailer, procedure and precautions	TF	11–1384
Locating the enemy	TF	21–1289
Locomotives, Diesel-electric, railway artillery, description	FS	4–215
Louse-borne diseases, types and control	TF	8–1288
Lung irritants, chemical warfare injuries, prophylaxis and therapy	FS	8–65

Subject	Classification	Film Number
Machine gun mounts. (*See* Mounts.)		
Machine guns. (*See* Guns, Machine guns.)		
Machine records unit, mobile unit	FB	30
Machine shop work:		
Drilling and tapping a cast steel valve body	TF	25–626
Drilling to a lay-out and spotfacing a cast iron valve body	TF	25–627
Engine lathe:		
Cutting external national fine thread	TF	25–337
Cutting taper with compound rest and taper attachment	TF	25–335
Drilling, boring, and reaming work held in chuck	TF	25–336
Rough turning between centers	TF	25–333
Turning work of two diameters	TF	25–334
Keyways, cutting on a finished shaft	TF	25–624
Milling machine:		
Cutting keyways	TF	25–339
Introduction	TF	25–338
Machining a rectangular cast iron block	TF	25–625
Machining a tool steel V block	TF	25–628
Plain indexing and cutting a spur gear	TF	25–342
Straddle and surface milling to close tolerances	TF	25–340
Straddle milling	TF	25–341
Vertical boring mill:		
Facing, turning, boring, grooving and chamfering on vertical turret lathe using two heads	TF	25–345
Rough facing, boring and turning a shoulder on a vertical turret lathe	TF	25–344
Rough facing, turning and drilling on a vertical turret lathe	TF	25–343
Machinist's tools and equipment	FS	10–49
Magic bullet, chemical therapy (WAC)	Misc.	944
Magnitude correction method and lateral adjustment, fire control and position finding, seacoast artillery	TF	4–925
Mail censorship	TF	30–1315
	FS	30–3
Maintenance:		
Automotive. (*See* Automotive maintenance.)		
First echelon. (*See* First echelon maintenance.)		
Second echelon. (*See* Second echelon maintenance.)		
Malaria, cause, prevention, and control	TF	8–953
	TF	8–1378
	TF	8–2057
	TF	1–3343
	FS	8–64
	Misc.	157
	Misc.	1035
	Misc.	1046
Manpower utilization. (*See* Job supervision, and Work simplification.)		
Maneuvers by the Army in North and South Carolina, 1941	FB	15
Manometer test, theories and principles	TF	9–1316

Subject	Classification	Film Number
Manual of arms. (*See* Instruction of the soldier.)		
Manual of the guidon	FS	7–23
Manual of the saber	FS	7–14
Map reading:		
British conventional signs and symbols	TF	5–1270
General	TF	5–12
Motor vehicle driver	TF	11–556
Maps:		
Circulation map, preparing and reading	FS	19–4
Orientation for coast artillery:		
Projections	FS	4–170
Types and features	FS	4–174
Orientation for seacoast artillery, military grid systems	FS	4–224
March graph, preparing and reading	FS	19–1
Marching and night driving, motor vehicle driver	TF	11–557
Marksmanship:		
Antitank. (*See* Guns, Antitank.)		
Carbine. (*See* Guns, Carbines.)		
Pistol. (*See* Guns, Pistols.)		
Rifle. (*See* Guns, Rifles.)		
Submachine gun. (*See* Guns, Submachine.)		
Tank destroyers. (*See* Tank destroyers, Marksmanship.)		
Matériel, field artillery, preparation for railway transport. (*See* Artillery, Field, Matériel.)		
Handling methods, mechanical:		
Army Air Forces depots	AF	151
Lifting palletized matériel with fork lift, other mechanical aids, and by hand	FS	20–9
Use of fork-truck, pallet, roller conveyer, four-wheel truck, and the mobile platform in unloading matériel from cars to platform and transferring to storage space	TF	104-1080
Identification:		
Artillery, German. (*See* Recognition and identification, Artillery, German.)		
Small arms, German and Japanese. (*See* Recognition and identification, Small arms.)		
Preparation for oversea shipment:		
Cleaning, preserving, and wrapping	TF	9–1358
Crating for export	TF	9–1374
Packing and boxing	TF	9–1359
Mathematics, mechanical, antiaircraft	TF	4–685
Measuring tools. (*See* Tools, Measuring.)		
Meat cutting and preparation:		
The Army cook:		
Carving and cooking	TF	10–1138
Cutting a forequarter of beef	TF	10–1135
Cutting a hindquarter of beef	TF	10–1134
Cutting lamb	TF	10–1136
Cutting veal and pork	TF	10–1137
Tools and equipment	TF	10–1133

Subject	Classification	Film Number
Mechanized units:		
Advance preparation, alertness, concealment, dispersion, and fire power	TF	21–2035
Cavalry, tactical formation of small units	FS	2–33
Medical care:		
Application and use of Army half-ring, hinged leg splint	FS	8–50
First aid. (*See* First aid.)		
Immobilization of fractures, intra-maxillary wiring, inter-maxillary elastic traction	FS	8–37
Sick and injured. (*See* Sick and injured.)		
Medical department dietitian	Misc.	933
Medical equipment, battalion medical section, content and use	FS	8–84
Medical service:		
Cavalry division	FS	8–44
In the jungle	FB	147
Infantry division:		
Medical battalion	FS	8–76
Medical detachments	FS	8–75
Invasion of Normandy	FB	146
Medical supply	FS	8–73
Medium maintenance company. (*See* Ordnance service.)		
Meet McGonegal, rehabilitation of disabled soldier	Misc.	956
Men of fire, foundry workers, their important role in war work, and their problems	WF	29
Merchant ships, identification. (*See* Recognition and identification, Ships.)		
Mess improvement:		
Food for health, major vitamin sources	SFS	8–53
Promoting good food habits	SFS	8–52
Mess sanitation	FS	8–61
Mess supervision:		
Food conservation, waste is sabotage	FS	10–123
Use of leftovers	FS	10–127
Message book, M210, description and usage	FS	7–89
Message center procedures:		
Forms, records, and equipment	FS	11–66
Incoming messages	TF	11–1064
Outgoing messages	TF	11–671
Messenger pigeons, care and release in the field	TF	11–621
Messing:		
In garrison:		
Duties of the KP	FS	10–99
Types of equipment	FS	10–97
Mobile kitchen	FS	10–100
	TF	10–1215
Railway kitchen	FS	10–96
Semi-permanent field kitchen	FS	10–98
Meteorological message, description and decoding, fire control and position finding, seacoast artillery	FS	4–82
Micrometer, use and care	TF	25–347
	FS	10–91

Subject	Classification	Film Number
Mil relation, preparation of fire, definition, and elementary application	TF	6–111
Military correspondence, correct methods of dictation	Misc.	1050
Military courtesy and discipline	TF	21–2048
	FS	12–3
Military justice and courts martial, administration	TF	15–992
Military law, articles of war	TF	11–235
Military police:		
A. W. O. L. and desertion	TF	19–2034
Control of individuals in the field	TF	19–2036
Handling prisoners of war, methods of examination and interrogation	TF	19–1360
Point control of traffic	TF	11–262
Techniques and mechanics of arrest and search of persons	TF	11–296
Military roads. (*See* Roads, Military.)		
Military runways. (*See* Roads and runways, Military.)		
Military sanitation. (*See* Sanitation.)		
Military stevedoring. (*See* Stevedoring, Military.)		
Military traffic control and signs. (*See* Traffic control.)		
Military training:		
Commando training in U. S	FB	35
Methods of instruction	TF	7–295
Milling machine. (*See* Machine shop work, Milling machine.)		
Mine clearance snake M2, use	FB	97
Mines:		
Antipersonnel:		
Employment, doctrine and method	TF	5–2018
Installation:		
Equipment used and camouflage discipline, deliberate mine fields	FS	5–25
M2 and M3 complete with combination firing device	FS	5–23
Antitank:		
Activating	FS	5–25
Description, assembly and installation, precautions in handling	FS	5–24
M6 and M7, latest U. S. developments	FB	153
Road blocks, use and methods of laying	FS	5–26
Booby traps, installation and employment	FS	5–27
British mines and fuses, description and use of the various types	FB	131
Enemy mines:		
Detection and neutralization	TF	5–1212
Disarming, defusing and removing, German Teller and antipersonnel mines	FS	5–28
German:		
"S" mine, construction and types of fuses	FB	138
Wooden and concrete, description, probing, disarming, and removing	FB	139
In Tunisia, types discovered and removed	FB	76

Subject	Classification	Film Number
Mines—*Continued*		
Enemy mines—*Continued*		
Italian, antipersonnel and antitank, construction, component parts, and use in combat	FB	140
Japanese, Dutch Mushroom, Beach, Type 93, and antitank magnetic, operation, arming, and disarming	FB	126
Removal and passage of mine field:		
Instruction for all arms	TF	5–2039
Instruction for specialists	TF	5–2040
Mine fields:		
Deliberate:		
Methods of laying, and duties of the crews	TF	5–2020
Surveying and laying mine fields, and placing, arming, and burying mines	FS	5–25
Hasty:		
Methods of laying	FS	5–15
Mining our harbors	FB	53
Submarine, controlled:		
Maintenance and renovation of underwater equipment	TF	4–1276
Operation of the mine field	TF	4–1275
Planting:		
Buoyant mines	TF	4–1273
Control buoys, and laying shore cable	TF	4–1271
Distribution box	TF	4–1274
Ground mines	TF	4–1272
Preparation:		
Buoyant mine underwater equipment	TF	4–1278
Distribution box	TF	4–1274
Ground mine underwater equipment	TF	4–1277
Mistakes in field training	FS	2–20
Moisture proofing and fungi proofing, Signal Corps equipment, methods and precautions	FB	142
Morale Films:		
Army Navy Screen Magazine (*See* Numerical index.)		
G. I. Movies. (*See* Numerical index.)		
Morale—General, The Negro soldier	RF	51
Orientation:		
Know Your Allies, Britain	OF	16
Military and Current Events, British and current affairs	OF	32
The Negro Soldier (short version)	OF	24
Why We Fight Series:		
Battle of Britain	OF	4
Battle of China	OF	6
Battle of Russia	OF	5
Divide and conquer	OF	3
Prelude to war	OF	1
The Nazis strike	OF	2
Morphine syrette, use, and administration of morphine	FS	8–74
Mortars. (*See* Guns, Mortars.)		

Subject	Classification	Film Number
Mosquito, carrier of malaria	Misc.	157
Motion picture projectors. (*See* Projectors, Motion picture.)		
Motor cargoes. (*See* Cargoes.)		
Motor maintenance. (*See* Automotive maintenance.)		
Motor transport, arm and hand signals. (*See* Signals, Arm and hand.)		
Motor vehicle driver:		
Difficult driving	TF	11–554
Elementary driving, instruction and inspection	TF	11–553
First echelon maintenance. (*See* Automotive maintenance, Preventive maintenance.)		
Hand signals, road rules, and regulations	TF	11–552
Loading, trouble shooting, reports and vehicle abuse	TF	11–559
Map reading	TF	11–556
Marching and night driving	TF	11–557
Responsibility, nomenclature, fire regulations and accident prevention	TF	11–551
Traction aids and the winch	TF	11–555
Motor vehicles. (*See* Vehicles, Motor.)		
Motorcycle driver training:		
Advanced driving	TF	17–617
Basic driving	TF	10–1089
Description and function	TF	10–654
Motorcycles:		
Harley Davidson, lubrication	FS	10–90
Indian, lubrication	FS	10–84
Inspection, command, maintenance, technical	FS	10–62
New type equipped with drive shaft	FB	19
Mounts:		
90-mm antiaircraft gun M1A1, field repair	TF	9–1298
	TF	9–1299
Gyro-stabilizer:		
Maintenance	TF	9–1023
Principles of operation	TF	9–1022
M1, 120-mm, 4.7-inch antiaircraft gun:		
Leveling mechanism, top carriage	FS	4–180
Nomenclature and general description of the bogies and pedestal	FS	4–196
Nomenclature and general description of cradle and gun assembly	FS	4–206
M2, 90-mm, antiaircraft artillery, guns and accessories	FS	4–141
	FS	4–144
	FS	4–160
M2A1, antiaircraft machine gun, cal. .50, disassembly and assembly	FS	9–172
	FS	9–173
M2A2, 3-inch antiaircraft gun M3, emplacement and operation	FS	4–21
M3, antiaircraft machine gun, cal. .50, disassembly and assembly	FS	9–180

Subject	Classification	Film Number
Mounts—*Continued*		
M34, combination, and 75-mm tank gun M3:		
Inspection	FS	9-189
Ordnance maintenance and repair	FS	9-228
Mobile gun, 37-mm, T-21, tests on automotive course	FB	11
Mortar:		
60-mm, M2, disassembly and assembly	FS	9-85
	FS	9-86
81-mm, M2:		
Disassembly and assembly	FS	9-84
Disassembly of barrel from bipod and base plate	FS	9-83
Multiple gun, antiaircraft artillery:		
M33, twin cal. .50 machine gun mount:		
Assembly and operation	FS	4-152
General description	FS	4-151
M42, combination antiaircraft mount, nomenclature and operation	FS	4-155
M45, cal. .50 machine gun mount:		
Assembly and operation	FS	4-154
General description	FS	4-153
Multiple machine gun:		
Drill and firing	TF	4-1292
Operation and maintenance	TF	4-1280
Self-propelled, 105-mm howitzer, M2:		
Functioning and lubrication	FS	17-30
Mechanical training	FS	17-28
Telescope mount, M59, and elbow telescope, M62, 4.2-inch chemical mortar, nomenclature and basic principles of use	FS	3-36
Two bogie, 90-mm gun, description	FB	515
Movement over ground, cavalry squads, mounted and dismounted	FS	2-31
Movies at war	FB	107
Mules, general structure	FS	8-38
Multiple machine gun mounts. (*See* Mounts.)		
Nail driver, pneumatic, use, disassembly, assembly, and periodic routine checks	TF	5-699
	TF	5-1211
Natural cover and concealment, individual use	TF	7-234
Navigation:		
Aerial:		
Airways flying	TF	1-328
Radio aids	TF	1-327
Celestial:		
Introduction and location of celestial points	TF	1-290
Position finding on the earth	TF	1-204
Land, for combat vehicles, determining position of enemy forces	FS	2-23
Nazis strike	OF	2
Negro soldier	RF	51
Negro soldier (short version)	OF	24

Subject	Classification	Film Number
Nervous system, structure and functions	TF	8–1393
New Caledonia, the arrival of U. S. troops, personnel and equipment	FB	34
Next of kin	TF	30–950
Night driving and marching, the motor vehicle driver	TF	11–557
Night fighters, air defense team	TF	1–867
Normandy, pre-invasion brief of German fortifications, and American industry's important role	WF	34
Now you're talking, safeguarding military information	Misc.	938
Numbers, introduction, elementary arithmetic	FS	12–6
Nursing and ward management	FS	8–81
	FS	8–82
Observation and measuring instruments, military optical, principles of operation, and use	TF	9–1122
Obstacles:		
Antimechanized, natural and artificial:		
Employment	FS	5–37
Methods of passage	FS	5–38
Antivehicle, elementary	TF	5–962
Barbed wire, portable, construction	TF	5–224
Beach and underwater, hand-placed charges, demolition blocks M2, M3, and M4, and the Bangalore torpedo, methods of placement	FB	133
Road blocks:		
Attack and defense measures	TF	17–1006
Location and construction	TF	5–2021
Tank:		
Construction and tests	FB	21
Hasty, construction	FB	13
Office hazards	FS	20–7
Office machines:		
Machine transcription:		
Transcription techniques, and use of transcription machines	Misc.	1049
Maintenance of machines	Misc.	1047
Ohm's law:		
Electricity and magnetism	TF	11–1200
Radio technician training series, capacitance	Misc.	1087
Oil filters, construction, functioning, and servicing	TF	9–1218
Oil gear units:		
Automatic weapons firing units:		
Adjustments and care of the M1 oil gear unit	TF	4–1281
Care and maintenance	TF	4–661
Hydraulic traversing mechanism, principles of operation	TF	9–1376
M3, description, installation and use with 40-mm antiaircraft gun	FS	4–261
Optical instruments, military. (*See* Instruments, Military optical.)		
Ordnance matériel:		
Aircraft and antiaircraft artillery, fire controls	FS	9–7
Cold weather test, automotive matériel	FB	123

Subject	Classification	Film Number
Ordnance matériel—*Continued*		
Identification:		
Artillery:		
Antiaircraft	FS	9–150
Guns	FS	9–149
Mortars and howitzers	FS	9–148
Railway and seacoast	FS	9–151
Automotive vehicles:		
Combat	FS	9–145
General and special purpose	FS	9–144
Small arms	FS	9–170
	FS	9–171
Maintenance and repair, wood cargo body	FS	9–244
	FS	9–245
Sub-zero tests of armor and ammunition	FB	72
Ordnance service, medium maintenance company:		
March and bivouac	TF	9–987
Organization	TF	9–986
Service operations	TF	9–988
Organization of the army	SFS	21–3
Orientation:		
Azimuth determination:		
Approximate methods, and elementary astronomy	FS	4–37
Solar observation	FS	4–39
Coast artillery:		
Maps:		
Projections	FS	4–170
Types and features	FS	4–174
Transit traverse, organization and duties of the party	FS	4–195
Designating location	FS	4–35
Determining direction in the field	TF	7–233
Determining position	FS	4–36
Instruments, purpose and use	FS	4–34
Oscilloscope target interpretation	TF	11–1082
Seacoast artillery:		
Instruments:		
Auxiliaries	FS	4–197
Transit, use	FS	4–192
Maps, military grid systems	FS	4–224
Orientation problem	FS	4–191
Transit traverse field notes, method of recording	FS	4–177
Transit traverse, running the traverse	FS	4–193
Stellar observations:		
Northern hemisphere	FS	4–38
Southern hemisphere	FS	4–40
Terminology, and equipment	FS	4–33
Orientation Films. (*See* Morale Films, Orientation.)		
Oversea movement of troops, preparatory procedures	TF	21–1265

Subject	Classification	Film Number
Pack transportation. (*See* Transportation, Pack.)		
Packaging:		
Matériel for oversea shipment, cleaning, preserving, and wrapping	TF	9–1358
Supplies:		
How to obtain rigidity	FS	10–130
Marking for oversea shipment	SFS	38–10
Packing and crating:		
Crate construction, wooden	FS	10–103
	FS	10–130
Equipment for finance disbursing section	FS	14–1
Quartermaster supplies, by air transportation officers	TF	1–805
Painting, spray equipment, care and cleaning	FS	9–207
	FS	9–206
Panoramic sketching	FS	6–61
Panoramic telescopes. (*See* Telescopes, Panoramic.)		
Parachutes and parachutists. (*See* Airborne, Parachute units.)		
Patient carriers, common military vehicles	FS	8–77
Patrol:		
Daylight reconnaissance	TF	7–1061
Mechanized	TF	21–2025
Mounted patrol, horse	TF	2–1261
Mounted scout, cavalry, horse	TF	2–1130
Night, reconnaissance	TF	7–275
Platoon scout	TF	7–318
Patrol bombers, identification German, Blohm-Voss 138	TF	1–3619
Patrolling and scouting. (*See* Scouting and patrolling.)		
Patrols, combat, security missions, mopping up missions, and raiding missions	TF	7–2055
Paving breaker, Thor pneumatic, principles, assembly, mechanism, operation, and care	TF	5–322
Percentage corrector M1, fire control and position finding, seacoast artillery	FS	4–86
Personal health in jungle warfare	TF	8–2057
Personnel management, military and civilian, and work simplification	Misc.	1073
Phonetic alphabet and pronunciation of numerals	SFS	11–28
Photography:		
Chemistry, major phases, and complete processing	SFS	11–70
Darkroom procedures:		
Contact printing	FS	11–60
Fine grain processing of negatives, basic steps	FS	11–83
Loading film holders	FS	11–59
Projection printing	FS	11–61
Tank development of cut film	FS	11–58
Interpretation of aerial photographs:		
Basic identification	FS	5–40
Military interpretation	FS	5–41
Photoflash, description and operation	Misc.	1032

Subject	Classification	Film Number
Photography—*Continued*		
Photographic intelligence in bombardment aviation	TF	1-3306
Photographic negative	FS	11-65
Physical training for instructors and soldiers	TF	11-184
Physiology and anatomy. (*See* Anatomy and physiology.)		
Pick up, venereal diseases	TF	8-2060
Pigeons:		
Care and release in the field	TF	11-621
Use in the Army	FB	32
Pioneer equipment:		
Infantry, general description and use	FS	7-102
Rigging:		
Hitches	TF	5-202
Knots and bends	TF	5-203
	FS	5-20
Practical installation	FS	5-18
Rope and lashings	FS	5-22
	TF	5-201
Woodcutting tool	TF	5-200
Pioneer platoon:		
Ammunition supply	FS	7-114
Duties	FS	7-119
Pioneer technique in assault of fortified positions	TF	5-1221
Pistols. (*See* Guns.)		
Piston rings and related parts	FS	10-93
Plain indexing and cutting a spur gear, milling machine	TF	25-342
Planetary gear train, principles of operation	TF	9-1284
Plasma, dried, Army-Navy package, reconstitution and use	FS	8-51
Platoon drill, infantry	TF	7-144
Pliers and screw drivers, care and use	TF	9-2027
Plotting boards:		
Fire control and position finding, seacoast artillery:		
110, M1915, description and operation	FS	4-74
Cloke and M1:		
Description	FS	4-75
Operation	FS	4-78
Orientation I	FS	4-76
Orientation II	FS	4-77
M1, orientation and operation	TF	4-921
Pneumatic tires. (*See* Tires, Pneumatic.)		
Pneumatic tools. (*See* Tools, Pneumatic.)		
Point control of traffic, military police techniques	TF	11-262
Pointing methods and reference numbers, fire control and position finding, seacoast artillery	TF	4-920
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Pole line construction:		
Erecting telephone poles:		
Blast driven earth rod, use	FB	143
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Installation:		
Anchors	TF	11-1070
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Subject	Classification	Film Number
Pole line construction—*Continued*		
Erecting telephone poles—*Continued*		
Installation—*Continued*		
Guys	TF	11–1071
Special cross arms	TF	11–968
Procedures, tools, and care and use of equipment	TF	11–951
Stringing open wires	TF	11–1088
Lineman's equipment for climbing and working on poles	TF	11–590
Loading and unloading poles on and from flat car or trailer	TF	11–1384
Truck K–43:		
Telephone construction and maintenance with winch:		
Introduction	FS	11–41
Operation	FS	11–42
Police riot club, use	FS	19–2
POM, preparation for oversea movement	TF	21–1265
Ponton boats. (*See* Boats, Ponton.)		
Ponton bridges. (*See* Bridges, Ponton.)		
Ponton rafts, ten ton, construction and uses	TF	5–284
Ponton rowing drill, fundamentals and technique	TF	5–268
Portable steel bridges. (*See* Bridges, Portable steel.)		
Position allocation, wage administration and classification	FS	104–15
Position finding and fire control. (*See* Fire control and position finding.)		
Position finding and the linear speed method theory	FS	4–24
Position finding on the earth, celestial navigation	TF	1–204
Positions and facings, instruction of the soldier dismounted	TF	7–248
Postal censorship	TF	30–1315
	FS	30–3
Poultry, classes and grades, packing and storage	FS	8–55
Power brakes. (*See* Brakes.)		
Power control units for engineer equipment	FB	100
Power line, GMC trucks, 2½-ton 6x6, general functions	FS	10–70
Power plant M5:		
Nomenclature and maintenance	FS	4–52
Trouble shooting	FS	4–56
	FS	4–57
Power plants and searchlights, harbor defense. (*See* Searchlights and power plants, Harbor defense.)		
Power tools. (*See* Tools.)		
Power train for tanks M4 and M5. (*See* Tanks, M4 and M5, Power train.)		
Power trains, Diesel tractractor, unit replacements and field adjustments	TF	9–172
Power transmission units, automotive, description and nomenclature	FS	10–34
Prediction, fire contol and position finding, seacoast artillery:		
Devices	FS	4–80
Theory	FS	4–79
Preflight inspection, B–17E, duties of radio mechanic	TF	1–533
Prelude to war	OF	1

Subject	Classification	Film Number
Preparation for oversea movement (POM)	TF	21–1265
Preparation of fire, field artillery. (*See* Artillery, Field, Preparation of fire.)		
Preparation of matériel for oversea shipment:		
Crating	TF	9–1374
Packing and boxing	TF	9–1359
Preventive maintenance, automotive. (*See* Automotive maintenance, Preventive maintenance.)		
Price of Rendova	Misc.	926
Prime movers:		
Half-tracks T–2 and T–3, tests with 105-mm howitzer	FB	12
Tractor T–9, medium tests with 90-mm antiaircraft gun	FB	11
Use for emplacement of 90-mm antiaircraft gun	TF	4–1145
Primers and igniters, coast artillery ammunition	FS	4–45
Printer, telegraph. (*See* Telegraph printer.)		
Prisoners of war:		
Handling of enemy personnel and documents by the captor	FS	30–6
Methods of handling, and interrogation	TF	19–1360
Private Snafu:		
Censored	Misc.	1076
Malaria control	Misc.	1035
Rumors	Misc.	930
Spies	Misc.	929
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Projectiles, coast artillery ammunition, development and description of types	FS	4–48
Projectors:		
Film strip, PH–222	FS	11–50
Motion picture, 16-mm operation:		
Ampro	FS	11–5
Bell and Howell	FS	11–4
Portable RCA	FS	11–6
Protective clothing, permeable and impermeable	FS	3–15
Pumps:		
Dual General Motors Diesel engine:		
Disassembly and assembly of water, fuel, and oil pump assemblies	FS	9–38
Fuel, AC mechanical:		
"AJ" series, combination fuel and vacuum pump disassembly and assembly	FS	9–169
All series, troubles, tests, and remedies	FS	9–167
"B" and "R" series, disassembly and assembly	FS	9–168
Pursuit planes, identification. (*See* Recognition and identification of aircraft.)		
Quadrant sight. (*See* Sights, Quadrant.)		
Quartermaster:		
At war, procuring, storing, and delivering supplies to oversea bases	Misc.	1010
Bakeries, battalion and company	FS	10–20

Subject	Classification	Film Number
Quartermaster—*Continued*		
Fire	FB	29
Laundries. (*See* Laundries, Quartermaster.)		
Organization and equipment, infantry division	FS	10–117
Refrigeration trailer	FS	10–107
Salvage collecting company:		
Procedures for collection of debris on the battlefield, and disposal to repair installations	FS	10–148
Supplies, packing and crating methods	TF	1–805
Quiz craft, British. (*See* Recognition of aircraft.)		
Radar. (*See also*, Radio sets and IFF sets.)		
Principles of operation	TF	4–1102
Theory of	FS	4–124
Radio:		
Aids for aerial navigation	TF	1–327
Antennas:		
AS–81/GR system, use for antijamming	FB	141
Creation and behavior of radio waves	TF	1–474
Fundamentals	TF	1–475
Rhombic:		
Engineering principles	FS	11–15
Erection	FS	11–16
B–17E airplane, preflight inspection by radio mechanic	TF	1–533
Communications. (*See* Communications.)		
Controlled target planes, employment	FB	58
Defense against jamming	TF	11–2068
Field stations, selection of, sites	SFS	11–14
Filters, types, principles of application and construction	FS	1–254
Frequency modulation, basic principles	TF	11–2069
Frequency power amplifiers, operation, neutralization and tuning, and use	FS	1–364
Optical height finders. (*See* Height finders, Radio optical.)		
Procedure, tank destroyer communications	FS	18–10
Receivers:		
BC–683, presetting, SCR–608 and SCR–628	FS	11–13
Principles	TF	1–472
Trouble shooting procedure	FS	1–519
Technician training series, capacitance, Ohm's law	Misc.	1087
Transmission security	TF	11–2044
Transmitters:		
BC–684, presetting, SCR–608 and SCR–628	FS	11–12
Field, tuning, setting frequency	TF	1–476
Principles and typical circuits	TF	11–1342
Tubes:		
Elementary electron theory and the diode tube	TF	1–470
Triode and multi-purpose tubes	TF	1–471
Radio sets:		
SCR–268:		
Assembly of the mount	TF	4–605
Disassembly of the mount and packing of trailers	TF	4–606

Subject	Classification	Film Number
Radio sets—*Continued*		
SCR–268—*Continued*		
Drill, antiaircraft artillery searchlight section	TF	4–1224
Orientation and synchronization with directors	TF	4–609
Placing in operation	TF	4–607
Synchronization with the searchlight	TF	4–610
Tracking targets	TF	4–608
SCR–270, locating and reporting targets	TF	11–629
SCR–284:		
Description	FS	11–17
Installation	FS	11–18
Operation	FS	11–19
SCR–284A:		
Description and installation	FS	6–29
Operation	FS	6–30
SCR–296A:		
Operation	FS	4–119
Operational checks	FS	4–120
Radio detection and ranging, nomenclature and function of component parts	FS	4–111
SCR–506:		
Description	FS	11–38
Operation	FS	11–39
Presetting, tuning present frequency channels, and tunable channels	SFS	11–40
SCR–545:		
Description and operation	FB	87
Exterior, general description and nomenclature	FS	4–230
Interior, general description and nomenclature	FS	4–231
Opening and closing station	FS	4–232
Orientation and synchronization	FS	44–1
SCR–582:		
Operation	FS	4–121
Operational checks	FS	4–125
Placing the set in operation	FS	4–116
Radio detection and ranging, nomenclature and function of component parts	FS	4–114
SCR–584:		
Emplacement and march order	TF	4–1324
Exterior, general description and nomenclature	FS	4–222
Interior, general description and nomenclature	FS	4–225
Operational checks	FS	44–3
Orientation and synchronization with the M4 and M7 directors	FS	44–8
Prepare for action, and close station	FS	4–226
Spotting of trial fire	TF	4–1363
SCR–608 and SCR–628:		
Installation	FS	11–10
Introduction	FS	11–9
Operation	FS	11–11
Presetting radio receiver BC–683	FS	11–13
Presetting radio receiver BC–684	FS	11–12

Subject	Classification	Film Number
Radio sets—*Continued*		
SCR–609, preparation for presetting, installation of adaptor M–399, and alignment equipment ME–73	FS	11–34
SCR–609 and SCR–610:		
Installation	FS	11–32
Introduction	FS	11–31
Operation	FS	11–33
Presetting	FS	11–35
SCR–682–A:		
Erection of the tower TR–42–A	FS	4–266
Installation	FS	4–265
Nomenclature and function of component parts	FS	4–264
Operation of radar equipment	FS	4–268
Power unit PE–183–A, nomenclature and operation	FS	4–269
Preparation for movement	FS	4–270
Readying the radar equipment	FS	4–267
SCR–694, practical and technical features, and waterproof and fungiproof qualities	FB	145
SCR–808 and SCR–828:		
Introduction	FS	11–45
Preliminary checks of receiver and transmitter, and operation	FS	11–46
Radio voice, use of	TF	11–2061
Rafts:		
Infantry, construction and loading	TF	5–1181
Ten ton ponton, construction and uses	TF	5–284
Raiders, identification, oversea patrol flight	TF	1–1017
Rail cargoes. (*See* Cargoes.)		
Railhead, class I, operation for transportation of supplies to fighting fronts	FS	10–116
Railroads, building and maintaining in combat areas	FB	71
Railway artillery. (*See* Artillery, Railway.)		
Range correction board, M1A1, fire control and position finding, seacoast artillery, description and operation	FS	4–85
Range correction devices, M1, fire control and position finding, seacoast artillery, orientation and operation	TF	4–921
Range finders, coincidence. (*See* Coincidence range finders.)		
Rations in the combat zone:		
A, B, C, D, K and 10 in one, description and use	TF	10–1237
C ration, use in field operations	TF	10–1216
Unit messing	TF	10–1215
Reading program for non-English speaking soldiers and slow learners	FS	12–5
Recognition and identification:		
Aircraft:		
British:		
Albacore	TF	1–3612
Baltimore	TF	1–3617
Barracuda	TF	1–3613
Beaufighter	TF	1–3642

Subject	Classification	Film Number
Recognition and identification—*Continued*		
Aircraft—*Continued*		
British—*Continued*		
Firefly	TF	1-3632
Halifax and JU-90	TF	1-3645
Horsa Glider	TF	1-3618
Hudson	TF	1-3616
Lancaster	TF	1-3644
Martlet	TF	1-3607
Master III	TF	1-3615
Mosquito	TF	1-3609
Spitfire pursuit	TF	1-438
Sunderland	TF	1-3610
Typhoon I	TF	1-3611
Wellington	TF	1-3643
York	TF	1-3631
Elementary characteristics:		
Fuselage, wing, and tail assembly	FS	4-218
Motors, control surfaces and landing gear	FS	4-219
German:		
Blohm-Voss 138, patrol bomber	TF	1-3619
Focke-Wulfe 189	TF	1-3620
Glider DFS-230	TF	1-3623
Heinkel 177	TF	1-3621
JU-90 and Halifax	TF	1-3645
ME-109, pursuit	TF	1-294
M-109F, fighter	TF	1-752
ME-210, bomber	TF	1-3622
Introduction to aircraft	TF	1-3663
Japanese:		
Betty	TF	1-3695
Dinah	TF	1-3379
Hamp	TF	1-3373
Helen	TF	1-3387
Lily	TF	1-3662
Mavis	TF	1-3694
Nick	TF	1-3388
Oscar	TF	1-3378
Sally	TF	1-3661
Tojo	TF	1-3386
Tony	TF	1-3377
Zero fighter	TF	1-3302
Quizcraft:	TF	1-3303
No. 1 (British), Super-Marine Spitfire, Hurricane, JU-88, Halifax, and Blenheim IV	TF	1-3600
No. 2 (British), Curtiss Tomahawk, Bell Airacobra, Junkers 87-B, Lockheed Hudson, and Wellington Bomber	TF	1-3601
No. 3 (British), Defiant, Stirling, Bristol Beaufighter, Manchester, and Catalina	TF	1-3602

Subject	Classification	Film Number
Recognition and identification—*Continued*		
Aircraft—*Continued*		
Quizcraft—*Continued*		
No. 4 (British), Maryland bomber, Messerschmitt 109–B, Sunderland flying boat, Whitley bomber, and Douglas Boston Mark III	TF	1–3603
No. 5 (British), Fulmar, Messerschmitt 110, Heinkel III, Bristol Beaufort, and Mustang	TF	1–3604
No. 6 (British), Typhoon, JU–52, Focke-Wulfe 190, Lancaster, and Mosquito	TF	1–3605
No. 7 (British), Mitchell, Liberator, Lightning, Marauder, and Flying Fortress	TF	1–3606
No. 8 (British), Auster, Horsa, Hotspur, Hamilcar, and Dakota	TF	1–3673
No. 9 (British), Barracuda, Thunderbolt, Vengeance, Spitfire V, and Bermuda	TF	1–3674
No. 10 (British), Skymaster, FW–200K, Martlet, Hellcat, Tarpon, and Zeke	TF	1–3675
No. 11 (AAF), Zeke, CG–4A glider, A–26, L–4, and B–29	TF	1–3369
No. 12 (AAF), A–31A, C–54, C–60, A–30 and P–63	TF	1–3370
No. 13 (Navy), F6F, F4U, SBD, TBF, and PV	TF	1–3698
No. 14 (AAF), C–46, L–5, P–40, Hamp, and P–61	TF	1–3397
No. 15 (British), Albermarle, Firefly, York, Me–109F, and Warwick	TF	1–3699
No. 17 (Navy), PB2Y, OS2A (Land), SB2C, OS2A (Sea) and PBM	TF	1–3700
American, British, and German	Misc.	954
Testcraft:		
AAF:		
No. 1 (European Theater) Allied and German	TF	1–3425
No. 2 (European Theater) Allied and German	TF	1–3426
No. 3 (Pacific Theater) Allied and Japanese	TF	1–3428
No. 4 (Pacific Theater) Allied and Japanese	TF	1–3429
No. 5 Fighter and medium bombardment for flexible gunners	TF	1–3430
British:		
No. 1	TF	1–3666
No. 2	TF	1–3627
No. 3	TF	1–3629
No. 4	TF	1–3648
Navy:		
No. 1	TF	1–3072
No. 2	TF	1–3703

Subject	Classification	Film Number
Recognition and identification—*Continued*		
Aircraft—*Continued*		
Testcraft—*Continued*		
Navy—*Continued*		
No. 3	TF	1–3704
No. 4	TF	1–3705
Tests:		
No. 5 Army, Navy, British, and Japanese	TF	1–3712
No. 7 Pacific Theater	TF	1–3713
No. 9 All theaters	TF	1–3714
No. 10 All theaters	TF	1–3715
Foreign and United States planes	FS	4–220
	FS	4–221
U. S. Army:		
A–20B, Douglas Light bomber	TF	1–902
A–24, Douglas light bomber	TF	1–904
A–26	TF	1–3371
B–17F, Flying Fortress	TF	1–900
B–24D, Liberator	TF	1–901
B–25, Mitchell	TF	1–3640
B–26, Marauder	TF	1–3630
B–29	TF	1–3363
C–46, Commando	TF	1–3375
C–47, Dakota	TF	1–3633
C–54 (DC–4) Skymaster	TF	1–907
C–60A, Lodestar	TF	1–909
CG–4A glider	TF	1–3364
Hudson	TF	1–3616
L4	TF	1–3357
L5	TF	1–3362
P–38, Lightning	TF	1–3635
P–39L, Aircobra	TF	1–3372
P–40, Warhawk	TF	1–3636
P–47, Thunderbolt	TF	1–3637
P–51, Mustang	TF	1–3701
P–61	TF	1–3374
P–63	TF	1–3372
U. S. Navy:		
F4U, Corsair	TF	1–3690
F6F, Hellcat	TF	1–3689
OS2U, Kingfisher	TF	1–3691
PBM, Mariner	TF	1–3693
PBY–5, Catalina	TF	1–3608
SB2C, Helldiver	TF	1–3692
TBF, Avenger	TF	1–3696
Armored vehicles:		
British:		
Covenanter and Crusader	TF	17–1160
General characteristics	FS	7–104
	TF	11–383

Subject	Classification	Film Number
Recognition and identification—*Continued*		
Armored vehicles—*Continued*		
German:		
General characteristics	TF	11–382
	TF	11–383
S.D.K.F. 2, 222, including 221 and 223	TF	17–1336
S.D.K.F. 2, 231 and 232	TF	17–1337
Tiger, Pz. Kw. VI, heavy tank	TF	17–1335
Italian	FS	7–29
Japanese	FS	7–30
U. S.:		
Full track laying	FS	17–25
Half-track laying and wheeled	FS	17–31
Sherman Mark IV tank	TF	17–1338
Staghound American armored car	TF	30–1372
Artillery, German	TF	11–382
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	FS	9–205
Personnel:		
German paratroops	TF	7–637
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Ships:		
Merchant	TF	1–1016
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	FS	9–201
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Recoil mechanism:		
Elementary principles	TF	9–30
French 75-mm gun, M1897, functions	TF	9–31
Hydropneumatic type, principles of operation	TF	9–1260
Hydrospring type, principles of operation	TF	9–1259
Reconditioning in the European theater of operations	Misc	1081
Reconnaissance:		
Bridges	FS	5–54
Cavalry, squad acting alone, combat methods of small units	FS	2–21
Daylight patrol	TF	7–1061
Mounted scout, cavalry, horse	TF	2–1130
Operations of our troops in New Caledonia	FB	34
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Scouts	TF	7–280
Refrigeration of food. (*See* Food, Refrigeration.)		

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Disabled soldiers, meet McGonegal	Misc.	956
European Theater of operations	Misc.	1081
Remote control gun, antiaircraft, 37-mm	FB	1
Remote control systems, antiaircraft artillery:		
M2:		
Nomenclature, description and operation	FS	4–128
Operation, and trouble shooting, 90-mm gun	TF	4–1144
M5, description and function, 37-mm and 40-mm guns	FS	4–117
Rendova, the price of	Misc.	926
Repeating coil C–161, use in connecting simplex and phantom circuits, telephone and telegraph	FS	11–64
Report from the Aleutians	Misc.	1006
Respiratory diseases. (*See* Diseases, Respiratory.)		
Revolvers. (*See* Guns, Revolvers.)		
Rhombic antennas. (*See* Radio, Antennas.)		
Riding hall movements, basic instruction in horsemanship, mounted	FS	2–7
Rifle grenades. (*See* Grenades.)		
Rifle markmanship:		
U. S. Rifle, cal. .30, M1:		
Preparatory training:		
Elevation and windage	TF	7–1100
	FS	7–85
Positions	TF	7–652
	FS	7–40
Rapid fire	TF	7–1062
Sighting and aiming	TF	7–969
	FS	7–28
Sustained fire	FS	7–156
Trigger squeeze	TF	7–1094
	FS	7–84
Zeroing and use of the score book	TF	7–1101
	FS	7–85
Range practice:		
Duties of the coach	FS	7–90
Safety precautions	FS	7–39
Rifle platoon:		
Battle formations	TF	7–228
Cavalry:		
Combat training	TF	2–983
Delaying action	TF	2–984
From mounted to dismounted act	TF	2–17
Horse, platoon acting alone	FS	2–32
Organization, equipment and drill	TF	2–982
Platoon defense	TF	2–985
Rifle squad:		
Battle formations	TF	7–393
Intrenchment of the squad in defense	TF	7–1182
Technique of fire:		
Application of fire	FS	7–123

Subject	Classification	Film Number
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Technique of fire—*Continued*		
Range estimation and target designation	FS	7–112
Rifle and automatic rifle fire and its effect	FS	7–118
Use of hand and rifle grenades	FS	7–125
Rifles. (*See* Guns.)		
Rigging:		
Barrage balloons:		
Mooring and handling lines	FS	4–32
Repair	TF	4–1113
	TF	4–1114
Pioneer equipment:		
Hitches	TF	5–202
Knots and bends	TF	5–203
	FS	5–20
Practical installations	FS	5–18
Rope and lashings	FS	5–22
	TF	5–201
Riot club, use by military police	FS	19–2
Riot control methods, including use of chemicals	TF	19–1290
River crossings. (*See also*, Stream crossings.)		
Assault boats	TF	5–1242
Foot bridges:		
Construction	TF	5–120
Uses	TF	5–119
Medical units, use of standard engineer equipment, and improvised methods utilizing standard medical equipment	FS	8–83
Road blocks:		
Antitank mines, use and methods of laying	FS	5–26
Attack and defense procedures	TF	17–1006
Location and construction	TF	5–2021
Road craters, use as tank obstacles	FB	3
Road rules, regulations and hand signals, motor vehicle driver	TF	11–552
Road to Berlin	WF	8
Roads, military:		
Construction and maintenance:		
General	FS	5–53
In Italy	FB	137
Drainage	TF	5–1194
Expedients, and maintenance	TF	5–1193
Gravel and rock surfaces	TF	5–1198
	FS	5–55
Reconnaissance for road location	TF	5–1196
Repair and maintenance	TF	5–1195
Sub-grade preparation	TF	5–1197
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Bases and untreated surfaces	TF	5–1190
Clearing, grubbing, and rock work	TF	5–1169
Construction in the Southwest Pacific	FB	111

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	FS	5–55
Soil-cement surfaces	TF	5–1192
Rock drill, M75, pneumatic, maintenance check-ups, lubrication, disassembly and assembly	TF	5–571
	TF	5–1211
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Rockets, antitank, 2.36-inch:		
Disassembly and assembly of launcher, M1	FS	9–141
M6 and M7, methods of use	TF	18–1166
M6A1 and M7A1, and launcher M1A1, characteristics, description, and maintenance	FS	7–148
M6A2 and M7A1, and launcher M1A1, operation, immediate action and safety precautions	FS	7–149
Roller bearings, tapered, care and maintenance	TF	11–257
Rome, liberation of	CR	1
Rooter and sheepsfoot roller, engineer equipment	EB	39
Rope:		
Construction and care, pioneer equipment	FS	5–22
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Wire. (*See* Wire rope.)		
Saber manual	FS	7–14
Sabotage, guarding against	TF	19–2032
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Cargo, types, placement, and adjustment	TF	2–945
McClellan, packing procedure	FS	2–29
Pack, types, placement, and adjustment	TF	2–944
Phillips pack, fitting and adjusting	FS	2–30
Safeguarding military information. (*See* Security.)		
Safety in combat. (*See also*, Close combat.)		
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Kill or be killed	TF	21–1024
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Salvage collecting company, procedures for collection of debris on the battlefield, and disposal to repair installations	FS	10–148
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Mess, sanitary devices and methods	FS	8–61
The fly, specific instruction on the control of flies	TF	8–999
The louse, types and characteristics, and decontamination procedures	TF	8–1000

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Water purification:		
Methods	TF	8–1174
Mobile equipment	FS	5–47
Portable equipment	FS	5–46
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Saving of manpower. (*See* Job supervision, and Work simplification.)		
Saws:		
Chain, pneumatic	TF	5–956
Circular, pneumatic	TF	5–955
Hacksaws, care and use	TF	9–2031
Schnelle truppen, maneuvers and tactics of German speed troops	FB	50
School of the soldier. (*See* Instruction of the soldier.)		
Scout car, English, Daimler four-wheel drive	FB	14
Scouting and patrolling:		
Mechanized patrol	TF	21–2025
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Mounted scout, cavalry, horse	TF	2–1130
Scouts:		
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SCR radio sets. (*See* Radio sets.)		
Scrap for victory	FB	39
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Sea jeep, the Aqua Cheeta	FB	19
Sea mule tug, use and operation	FB	110
Seacoast artillery. (*See* Artillery, Seacoast.)		
Search of arrested persons, techniques and mechanics	TF	11–296
Searchlights:		
Antiaircraft:		
Battery, preparation for use of matériel, orienting and synchronizing	TF	4–196
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General Electric M1941:		
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Introduction, nomenclature, principal electric circuits, and antiaircraft problem	FS	4–23
Ventilating system, lamp and lamp control box	FS	4–25
Section:		
Drill with SCR–268	TF	4–1224
March order, duties of crew in packing and loading equipment	TF	4–1223
Preparation for action	TF	4–1222
Sperry M1941:		
Distant electric control system, lamp and lamp control system	FS	4–22

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Searchlights—*Continued*		
Antiaircraft—*Continued*		
Sperry M1941—*Continued*		
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Ventilating system, zero reader and follow-up system	FS	4–14
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Harbor defense:		
25 K-W power plant, care and operation	FS	4–163
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Care and maintenance	FS	4–158
Nomenclature and function	FS	4–157
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Amphibian truck, DUKW-353, GMC 2½-ton, 6 x 6	TF	9–1328
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Interrogation of prisoners	TF	11–225
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Now you're talking	Misc.	938
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Shipping:		
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Army consignees, handling VSD copies	FS	10–157
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Procurement depot, description, operation, and methods of reproduction	FS	10–155
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Construction of U. S. Army type 2 service shoes	FS	10–152
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Finishing machine	FS	10–161
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Sole stitching machine	FS	10–160
Tools used, and specific use for each tool	FS	10–151
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Sick and injured, hospital care by medical personnel:		
Enemas	TF	8–1383
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Foreign body localization, roentgenoscopic, steps, theory and geometry of procedures	FS	8–92
Morning care	TF	8–1343
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75-mm, M1 and M8	FS	6–40
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M6, nomenclature, orientation, and employment against targets, direct fire control for automatic weapons	FS	4–178
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Adjustment and collimation	FS	4–260
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Computing, M7 and M7A1:		
Aiming at aerial targets in both diving and level flight, and use against ground and naval targets	FS	44-2
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Aiming and orientation	FS	4-113
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Direct fire control for automatic weapons:		
Aiming at aerial targets	FS	4-150
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Mark 9 reflector:		
Direct fire control for automatic weapons, description, nomenclature, adjustment, and use against aerial targets	FS	4-223
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Quadrant, 155-mm gun, checking the cross level, basic procedure	TF	4-1009
Speed ring, direct fire control for automatic weapons:		
40-mm guns:		
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Machine gun, Cal. .50:		
Description, orientation, and aiming at aerial, ground, and naval targets	FS	4-217
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Arm and hand:		
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Infantry, for crew-served weapons	FS	7-10
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Unbalanced conditions, action of current in circuits, and expedient methods of operation	TF	11–2063
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Equipment and clothing, individual	TF	7–677
First aid and emergency repair of equipment	TF	7–681
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Sled, construction and first-aid use	TF	7–682
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Slide films:		
Mechanics of projection, vivid visualization	AFFS	1089
Use in teaching	AFFS	1088
Small arms. (*See* Weapons.)		
Smoke defense against air attack	FB	57
Smoke generator, mechanical, operation	TF	3–1165
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Snow and extreme cold, safeguarding personal health	TF	8–1297
Snow camping:		
Above timberline, concealment, messing and sleeping methods	TF	7–678
In timber, concealment, messing and sleeping methods	TF	7–679
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Soldier in bivouac	TF	7–2051
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Soldiers in the making, classification of enlisted men	TF	12–578
Soldiers of the line, industrial workers, training as temporary soldiers	FB	67
Soldier's qualification card	TF	12–578
Soldiers without guns, civilian contribution to war effort	WF	9
Somervell's Chicago speech, service commands	Misc.	799
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Sound effects for fire adjustment:		
Major caliber firing	TF	4–1079
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Splints:		
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M3—*Continued*		
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